

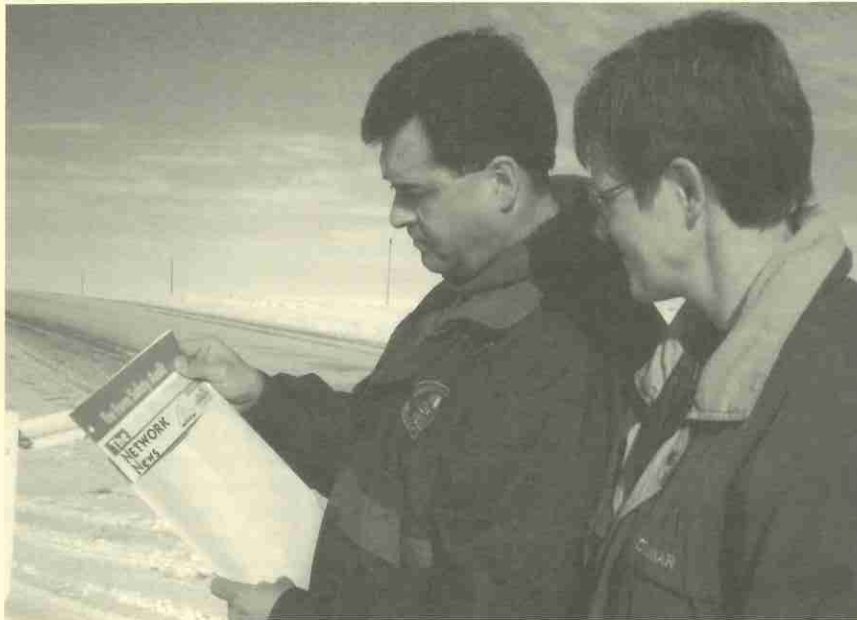
AGMED NEWS '99-2000

CENTRE FOR AGRICULTURAL MEDICINE, UNIVERSITY OF SASKATCHEWAN



June 2000

MESSAGE FROM THE CHAIR



Wayne and Lucy Toustego

GETTING OUT OF TOWN

The photo on the front of our Annual Report truly embodies our vision for the Centre for Agricultural Medicine. On this photo, we see Wayne and Lucy Toustego of Bruno, Saskatchewan at their mailbox opening their annual information package from the Centre for Agricultural Medicine. Going out to more than 20,000 families in some 90 participating rural municipalities through the Agricultural Health and Safety Network, the information and programming from the Centre is unequaled in a farm safety program anywhere in Canada.

As Wayne and Lucy open their package, they see a copy of the Network News, the semi-annual newsletter that goes out to the farm families. Beyond the Network News is a copy of the Farm Safety Audit, a sophisticated occupational health-based, risk assessment analysis that the farmer and his family can conduct on their own property as a means of structuring their own occupational health program.

In our outreach program, we are partners with Saskatchewan Agriculture and Food (SAF), the Saskatchewan Association of Rural Municipalities (SARM), and other government departments such as Saskatchewan Health and Saskatchewan Labour in joining with our industry supporters and the Canadian Agricultural Safety Program in bringing a unique coalition of agencies to the table in support of health and safety for farm families.

At the same time our excellence in research drives the knowledge development which is so necessary to structure the kind of safety programs that are important to our

farmers. In using the information from our research to structure outreach and prevention programs, it is noteworthy that our Centre for Agricultural Medicine is the National Lead Agency in the Canadian Agricultural Safety Program for Program Development and Research. In accepting these responsibilities, we, the Board of Directors of the Centre, the faculty, staff, and students, and all our collaborators recognize both the magnitude of the undertaking and the opportunities that lie before us.

Throughout the last year, our Centre has been instrumental in fostering the development of a national agency, the Rural Health Research Consortium, which is holding its first national scientific meeting this year in collaboration with the Canadian Coalition for Agricultural Safety and Rural Health. We are proud that the Coalition, now an independent national body which was fostered and developed by the Centre, and which now undertakes a prevention program that reaches across Canada, has its National head office at the Centre in Saskatoon.

In summary, we think that our Centre is unique. We not only foster research, and through research, the training of students, but we reach out in prevention and service both in Saskatchewan and beyond. In that capacity, our national newsletter, CANFARMSAFE® penetrates into more than 200,000 rural households across Canada, providing a vehicle that brings the results of our research to our clients, the farmer and rural people of Canada in both English and French languages.

As we look forward to the future, we see the Centre for Agricultural Medicine retaining its focus on agricultural safety and rural health issues, but we also

see the development of a unique, across-the-board effort in rural and environmental health, and we look forward to these developments in the year ahead.

As usual, a sincere thank you to all our various funding agencies, both within government and without, to our clients, and of course, to our faculty, students, and staff who collectively make up the engine to drive this unique effort.

Sincerely

David R. Popkin, Dean, College of Medicine
Chair, Board of Directors, Centre for Agricultural Medicine

RESEARCH:

Care of Rural Elderly with Dementia.

The first phase of this project sought input from health district boards and other stakeholders in rural dementia care into the objectives and design of a study exploring issues in the care of rural elderly with Alzheimer Disease or related forms of dementia. A pilot study was conducted and a final report was distributed to the health district board. One of the issues to emerge in the pilot study was the difficulty of meeting the special needs of residents with dementia in the long-term care facilities in the district, where residents with dementia are integrated with other residents with different needs. The next phase of the project will explore the differences between rural long-term care facilities that have developed separate dementia care units and integrated rural facilities. The research group includes D. Morgan, Centre for Agricultural Medicine; Norma Stewart, College of Nursing, and C. D'Arcy, Applied Research, University of Saskatchewan.

Prairie Ecosystem Study (PECOS)

Prairie Ecosystem Study of Pesticide Exposure and Human Health: (PECOS) focuses primarily on the effects of exposures to pesticides on the neurological, psychological, immunological, and respiratory systems. The research group includes A. Cessna, Agriculture Canada Research Branch; M. Crossley, Department of Psychology; J. Dosman, Centre for Agricultural Medicine; P. Hanke, Farmer, Beechy; D. Irvine, Toxicology Centre; R. Kerrich, Department of Geological Sciences; V. Laxdal, Department of Pathology; H. McDuffie, Centre for Agricultural Medicine; A. Rosenberg, Department of Pediatrics; A. Senthilselvan, Centre for Agricultural Medicine; and K. Semchuk (Chair), Centre for Agricultural Medicine and College of Nursing. Two Master's students were involved: L. Hagel and M. Masley, Department of Community Health and Epidemiology.

Drinking Water Quality (PECOS) Participants provided samples of drinking water from their homes. The water sources were community based (ground and surface water) and private wells. Researchers conducted chemical elemental analyses and quantification of the

concentration of 44 chemical elements. Each family received individual reports on its water quality. Twenty-six samples had concentrations exceeding the Saskatchewan Municipal objectives for at least one of the elements, selenium, lead and arsenic. These families were provided with additional information and an opportunity for a retest of their drinking water.

Environmental Pesticide Exposure and Human Health: Characterization of Exposure by Questionnaires (PECOS)

Among pesticide applicators, lifetime use of herbicides was more frequent than insecticides or fungicides. The most commonly used chemical classes of herbicides were phenoxyacetic acids, thiocarbamates, phenols, dicamba, trifluralins, glyphosate and organophosphorus compounds and among insecticides: carbamates, organochlorines and organophosphates. 2,4D was the most commonly reported individual compound. Characterization of exposure to pesticides by questionnaire was the conceptual link between baseline and repeat measurements of neuropsychological, pulmonary and immune function and of pesticide levels in blood.

(The Eco-Research Program: Tri-Council Secretariat of Canada, Medical Research Council, Natural Science and Engineering Research Council, Social Science and Humanities Research Council)

Canadian Agricultural Injury Surveillance Program (Saskatchewan Project).

The Saskatchewan Farm Injury Surveillance Project continues to examine the occurrence of farm-related fatalities and hospitalizations for Saskatchewan populations. To date we have collected information on fatalities and farm injuries that resulted in hospitalization for the years 1990 to 1997. Distribution of the report started in the spring.

A Study of the Prevalence of Asthma in School Age Children Residing in Estevan and Swift Current.

In January 2000, we began a study to assess the respiratory health of children living in Estevan and Swift Current. The study is supported by grants from the Saskatchewan Lung Association and the South Central and South East Health Districts. Information concerning children's respiratory health were collected by questionnaire and lung function testing. Preliminary results should be available by 2001.

GRANTS RECEIVED:

Morgan D, Stewart N, D'Arcy C. *Care of Rural Elderly with Dementia: Challenges, Opportunities, Solutions.* 1999 - 2000 Medical Research Council of Canada (MRC). \$ 50,000.

Rennie DC, Senthilselvan A, McDuffie HH, Cockcroft D, Allison D, Herrick T. *A Study of Asthma Prevalence in School Age Children in Estevan and Swift Current.* 1999-2000. Saskatchewan Lung Association. \$ 30,000.00.

Senthilselvan A, Dosman JA. *Prevalence, Severity and Treatment of Asthma in Saskatchewan, 1989 to 1998.* 2000-2001. Health Services Utilization and Research Commission - HSURC. \$ 34,977.00.

Dosman JA, Voaklander D, Senthilselvan A, McDuffie HH, Day LM, Pahwa P, Redekop T, Harrell AW, and Hagel L (project coordinator).

Case-Control Study of Farm Machinery Injuries - Prairie Region of Canada. 1999-2002. Medical Research Council of Canada (MRC). \$411,000.00

Mrs. Julie Bidwell was awarded \$ 6,000 to assist the Canadian Farmers with Disabilities in the development of a story board and script for the production of an educational video featuring Canadian farmers who have experienced machinery entanglement injuries.

Lupescu C, Lockinger I, McDuffie HH, Bidwell J, Dosman JA. Skin Safety Program for Farmers. 1999-2000. Saskatchewan Agriculture Safety Program. \$ 24,000.

Dosman JA, McDuffie HH, Bidwell J, Lockinger L. Preventative Materials Development and Communication Program. 1999-2000. Canadian Agriculture Safety Program. \$ 85,000.

The Rural Health Extension Program applied to the "Cyril Capling Trust Fund" - U of S, to develop an interactive program for our Webpage entitled "Tractor Rollovers and Runovers - Could it Happen on Your Farm?" and was awarded \$5,000.

Morgan D (PI), Stewart N, D'Arcy C. *Prevalence of Dementia in Rural Long-Term Care Facilities with Dementia Units.* Scientific Teaching & Research Grant, College of Medicine. \$ 10,000.

REPORTS:

The Centre for Agricultural Medicine has published a final Report on the *Respiratory Health in Swine Producers and Indoor Air Quality in Animal Confinement Buildings in Saskatchewan - Part II. Longitudinal Changes, Mechanisms, Maximum Exposure Limits and Intervention Project.* Copies are available through the Centre for Agricultural Medicine.

SERVICES:

Rural Health Extension Program

Overview: The Rural Health Extension Program (RHEP) at the Centre for Agricultural Medicine collaborates on a provincial and a national basis with individuals and agencies interested in agricultural health and safety to:

- develop and distribute agricultural health and safety resource materials
- develop and implement agricultural health and safety programs
- publish newsletters, a monthly column and other articles on agricultural health and safety issues

RHEP was established as an extension program that includes the Agricultural Health and Safety Network, a 1988 cooperative venture in which the Centre and the Saskatchewan Association of Rural Municipalities (SARM) joined forces to provide agricultural health and safety services to Saskatchewan farm families. Network activities and programs continue to be an important part of the Rural Health Extension Program.

Agricultural Health and Safety Network: As of the end of March 1999, 89 rural municipalities have enrolled their 20,000 farming families in the Network to receive the benefits and programs of membership. The direction for Network programs and activities continues to be provided by a six member steering committee representing each of the SARM divisions.

Staffing: **Dr. Helen McDuffie** continues to manage the Rural Health Extension Program. **Lori Lockinger** continues as the program coordinator and **Connie Lupescu** continues to work in a .2 capacity while pursuing a master's level education in Nursing. **Julie Bidwell**, an occupational health nurse is employed in a .8 capacity in resource development. **Anna Marie Mechor** provides clerical support for the programs of the Network. **Sueli de Freitas**, Public Relations Coordinator, has aided RHEP in promotion and Website updates. From the University of Saskatchewan, **Jolene Duncan** and **Hope Bilinski** completed student practicums within the Rural Health Extension Program.

Program Delivery: During the winter, staff delivered the *Respiratory Health Program for Farmers* to the Network member RMs of Rosthern #405, Cut Knife #439, and Grant #373. *Farm Response*, an accident preparedness course for farm families, was delivered to approximately 175 farmers and family members enrolled in 15 courses. Hearing screening was provided in the RM of Kindersley, #290 to approximately 45 participants.

Slide Talk presentation: A slide talk presentation, *Clothing and Protective Equipment for Agricultural Chemical Application*, was developed and pilot tested in two communities, Arborfield and Humboldt. The presentation consists of a colored visual presentation, speaker's notes, additional information for the presenter, a participant's quiz, evaluation forms and a fact sheet, *Clothing and Protective Equipment for Agricultural Chemical Application*, that was revised and expanded for participants. This presentation will be available in a variety of formats for anyone interested in delivering it in their local community.

Farm Stress Initiative: In July and October of 1999, meetings were organized by the Farm Stress Unit and the Centre for Agricultural Medicine, with approximately 25 people in attendance representing university, government, service agencies, and the farm sector. As a result of these meetings, the theme chosen for the Network's annual educational package was *Rural Stress*. The *Rural Stress Toolkit* included in the annual package explains stress and how to handle it. Exercises in the toolkit relate to awareness of stress and how to manage it by using acceptance, coping, and action skills.

Fact Sheets: *Respiratory Hazards: A Fact Sheet on Molds and Fungi*, was revised and reprinted in August, 1999. As requested by Sask Ag and Food, a new fact sheet was produced in November, 1999, entitled, *Health and Safety for Grain Drying Practices*.

Publications: The pamphlet describing the Network has been updated. *Network News* continues to be published twice a year, updating members on the activities and programs of the Agricultural Health and Safety Network and on current agricultural health and safety issues. *CANFARMSAFE*, a national newsletter printed in both official languages, continues to be produced and distributed twice a year. The goal of *CANFARMSAFE* is to communicate agricultural health and safety information, and information about projects funded by the Canadian Agriculture Safety Program (CASP), to farm operators and health and safety professionals. Circulation during the past year averaged 200,000. Broad distribution was made possible through insertion of the newsletter in six agricultural newspapers, *Country Life*, the *Western Producer*, the *Manitoba Cooperator*, the *Ontario Farmer*, *La Terre de Chez Nous* and *Farm Focus*. Funding was received from CASP and the Centre for Agricultural Medicine along with in-kind insertion subsidies coming from newspapers to help support development and distribution of the newsletter. An evaluation

of *CANFARMSAFE* and a feasibility study regarding expansion to a magazine format were completed.

Promotion: Staff have attended events throughout Saskatchewan promoting membership in the Agricultural Health and Safety Network. Events included the Western Canada Farm Progress Show, the SARM convention in Regina, the Crop Production Show, and regional farm fairs.

Presentations: Presentations on managing stress were given at the Bruno Farm Stress Management Day and at a Wiseton's Lion's Club meeting. The Sask Labour Farm Health and Safety Council received an update about RHEP. Presentations on Saskatchewan farm injury data and the development of a website training module on tractor rollovers and runovers were given at a meeting of Sask Wheat Pool Young Farmers in Saskatoon.

SARM 90th Anniversary Student Scholarship: Randy Linton from Parry (RM of Caledonia #99) was this year's winner. The \$1,000 scholarship contest was promoted to grade 12 students from rural municipalities. Students applied by writing a 1000 word essay on "The Importance of Safety and Health in the Farm Workplace" or "Safety and Health Hazards on My Farm".



Randy Linton

Partnerships: The Saskatchewan Association of Rural Municipalities continues to provide support through an opportunity for reporting at its spring convention. Connie Lupescu writes a monthly column entitled *Healthworks* for the *Rural Councillor*. Formal partnerships have been arranged among RHEP and North Valley and Midwest Health Districts. Sask Ag and Food continues to provide support for the programs and resources of the Agricultural Health and Safety Network. Staff continue to make contact with extension agrologists across the province to share information about programs and services.

Website: Staff were trained to use software enabling them to develop CDROM/web-based educational training programs. The Rural Health Extension Program maintains web site pages to promote its activities and programs. The web site address is: www.usask.ca/medicine/aghealth/.

PAPERS:

Rosenberg AM, Semchuk KM, McDuffie HH, Ledingham DL, Cordeiro DM, Cessna AJ, Irvine DG, Senthilselvan A, Dosman JA. Prevalence of Antinuclear Antibodies in a Rural Population. *Journal of Toxicology and Environmental Health, Part A*, 56:225-236, 1999.

Habbick BF, Pizzichini MM, Taylor B, Rennie D, Senthilselvan A, Sears MR. Prevalence of Asthma, Rhinitis and Eczema Among Children in Two Canadian Cities: The International Study of Asthma and Allergies in Childhood. *Can Med Assoc J*, June 29 1999; 160 (13): 1824-1828.

Lupescu C, Angelstad B, Lockinger L, McDuffie HH, Hagel LM, Dosman JA, Bidwell J. Hearing Conservation Program for Farm Families: An Evaluation. *Journal of Agricultural Safety and Health*, 1999; 5 (2): 329-337.

Hagel LM, McDuffie HH, Dosman JA, Lupescu C, Lockinger L, Bidwell J. The Agricultural Health and Safety Network: The Ten Year History of a Unique Extension Program. *Journal of Agricultural Safety and Health*, 1999; 5(2):227-237.

Rennie DC, Dosman JA. Distance to Health Care and the Prevalence of Asthma in School Age Children. *Journal of Agricultural Safety and Health*, 1999; 5(2):271-278.

Crossley M, Semchuk KM, McDuffie HH, Ledingham DL, Hagel LM, Cessna AJ, Irvine DG, Senthilselvan A, Dosman JA. Neuropsychological Functioning and Health-related Symptoms in a Commercial Pesticide Applicator During High- and Low-level Exposure Seasons. *Journal of Agricultural Safety and Health*, 1999; 5(3):279-287.

Bharadwaj L, Senthilselvan A, Dosman JA, Gusikowski C. Acute Changes in Lung Function in Farmers Exposed to Grain Dust. *Journal of Agricultural Safety and Health*, 1999; 5(2):207-214.

Gomes J, Anilan SV, Lloyd O. Reproductive and Developmental Toxicity from Organophosphorus Pesticide Formulations: Litter Size and Low Fetal Weight. *Journal of Agricultural Safety and Health*, 1999; 5(2):239-248.

Stewart, N, Hiscock M, Morgan D, Murphy P, Yamamoto M. Development and Psychometric Evaluation of the Environment-Behavior Interaction Code (EBIC). *Nursing Research*, 1999; 48(5): 260-268.

Rennie DC, Dosman J. Distance to Health Care and the Prevalence of Asthma. *Journal of Agricultural Safety and Health*, 1999; 5:271-8.

Habbick B, Pizzichini MMM, Taylor B, Rennie D, Senthilselvan A. Prevalence of Asthma, Rhinitis and Eczema Among Children in Two Canadian Cities: The International Study of Asthma and Allergies in Childhood. *Canadian Medical Association Journal*, 1999; 160:1824-8.

CONTRIBUTED PAPERS IN PUBLISHED CONFERENCE PROCEEDING AND ABSTRACT:

McDuffie HH, Dosman JA, Spinelli JJ, Fincham S, Robson D, Pahwa P, McLaughlin JR. Canadian Farm Residents, Specific Behaviours and Non-Hodgkin's Lymphoma (NHL). Presented: Canadian Society for Epidemiology & Biostatistics, Vancouver, BC, May 1999, and at the Agricultural Safety and Health in a New Century, Cooperstown, NY, April 2000.

Hagel LM, McDuffie HH, Semchuk KM, Ledingham DL, Cessna AJ, Irvine DG, Senthilselvan A, Crossley M, Dosman JA. PECOS: An Exploration of Associations Between Exposure to Pesticides and Injury in a Rural Population. Presented: Canadian Society for Epidemiology & Biostatistics, Vancouver, BC, May 1999 and International Ecosystem Health Congress, Sacramento, California, August 15-20, 1999

Pahwa P, Senthilselvan A, McDuffie HH, Dosman JA. Assessing Goodness of Fit of Longitudinal Models.

Presented: Canadian Society for Epidemiology & Biostatistics, Vancouver, BC, May 1999.

McDuffie HH, Magliocco AM, Robson D, Leis A, Kim J, Poon M. Family History of Cancer Information in Patient's Records: An Indicator of Possible Hereditary Cancer? Presented: Canadian Society for Epidemiology & Biostatistics, Vancouver, BC, May 1999.

McDuffie HH, Dosman JA, Spinelli JJ, Fincham S, Robson D, Pahwa P, McLaughlin JR. Characterization of Indoor and Dermal Exposure to Pesticides. Presented: Canadian Society for Epidemiology & Biostatistics, Vancouver, BC, May 1999.

Semchuk KM, McDuffie HH, Cessna AJ, Irvine DG, Ledingham DL, Laxdal VA, Dosman JA, Senthilselvan A, Rosenberg AM, Hanke P, Crossley MFO. Prairie Ecosystem Study: Herbicides in Human Plasma. Presented: Canadian Society for Epidemiology & Biostatistics, Vancouver, BC, May 1999.

Kiryuchuk S, Donham K, Reynolds S, Burmeister L, Barber E, Thorne P, Senthilselvan A, Rautiainen R. Oil/Water Sprinkling Intervention in a Swine Building. Presented: International Symposium on Dust Control in Animal Production Facilities, May 30 - June 2 (1999): 335-341, Aarhus, Denmark.

Nonnenmann MW, Rautiainen RH, Donham KJ, Kiryuchuk SP, Reynolds SJ, O'Shaughnessy PT, Thorne PS. Vegetable Oil Sprinkling as a Dust Reduction Method in a Swine Confinement. Presented: International Symposium on Dust Control in Animal Production Facilities, May 30 - June 2 (1999): 271-278, Aarhus, Denmark.

McDuffie HH, Semchuk KM, Cessna AJ, Irvine DG, Ledingham DL, Hanke P, Crossley MFO, Senthilselvan A, Dosman JA, Rosenberg AM. Prairie Ecosystem Study (PECOS): Dermal and Inhalation Exposure to Pesticides. Presented: Canadian Society of Epidemiology and Biostatistics, Vancouver, May 1999.

Morgan DG, Semchuk KM, Stewart NJ, D'Arcy C. Dementia Care in Rural Long-Term Care Facilities: Barriers to a Supportive Social Environment. Presented: International Nursing Research Conference, Edmonton, AB, June 16-18, 1999.

McDuffie HH, Semchuk KM, Cessna AJ, Irvine DG, Ledingham DL, Hanke P, Crossley MFO, Senthilselvan A, Dosman JA, Rosenberg AM. Prairie ecosystem Study (PECOS): Accidental Occupational Dermal and Inhalation Exposures to Pesticides Between Baseline (February 1996) and Retest (June 1996). Presented: International Congress on Ecosystem Health - Managing for Ecosystem Health, Sacramento, California, August 15-20, 1999.

McDuffie HH, Semchuk KM, Cessna A, Irvine DG, Senthilselvan A, Rosenberg A, Crossley M, Dosman JA, Hanke P, Laxdal VA, Ledingham DL, Holfeld L, Hagel L, Masley M. The Prairie Ecosystem Study (PECOS): Environmental Pesticide Exposure and Human Health: Characterization of Exposure by Questionnaires. Presented: International Congress on Ecosystem Health - Managing for Ecosystem Health, Sacramento, California, August 15-20, 1999.

McDuffie HH, Semchuk KM, Kerrich R, Cessna AJ, Irvine DG, Senthilselvan A, Ledingham DL, Juorio V, Hanke P, Hagel LM, Masley ML, Dosman JA, Crossley M. The Prairie ecosystem Study (PECOS):

Drinking Water Quality. Presented: International Congress on Ecosystem Health - Managing for Ecosystem Health, Sacramento, California, August 15-20, 1999.

McDuffie HH, Semchuk KM, Cessna AJ, Irvine DG, Ledingham DL, Hanke P, Crossley MFO, Senthilselvan A, Dosman JA, Rosenberg AM. Prairie Ecosystem Study (PECOS): Dermal and Inhalation Exposure to Pesticides. Presented: International Congress on Ecosystem Health - Managing for Ecosystem Health, Sacramento, California, August 15-20, 1999, and at the Agricultural Safety and Health in a New Century, Cooperstown, NY, April 2000.

McDuffie HH, Semchuk KM, Crossley MFO, Senthilselvan A, Rosenberg AM, Hagel L, Masley M, Ledingham DL, Hanke P, Kerrich R, Cessna AJ, Irvine DG, Dosman JA, Laxdal VA. Prairie Ecosystem Study (PECOS): From Community to Chemical Elements II. Presented: Agricultural Safety and Health in a New Century, Cooperstown, NY, April 2000.

Morgan D, Semchuk K, Stewart N, D'Arcy C. Dementia Care in Rural Long-Term Care Facilities: Barriers to a Supportive Social Environment. International Nursing Research Conference: Research to Practice, Edmonton, AB., June 16-18, 1999.

Morgan D, Semchuk K, Stewart N, D'Arcy C. An Assessment of the Physical Environment of Rural Long-term Care Facilities. Canadian Association on Gerontology 28th Annual Scientific and Educational Meeting, Ottawa, ON., Nov. 4-7, 1999.

Stewart N, Morgan D, Hiscock M. Daily Patterns of Positive and Disruptive Behaviour with Advancing Dementia. The Gerontological Society of America 52nd Annual Scientific Meeting, San Francisco, CA., Nov. 19-23, 1999.

Lockinger L. Health and Safety on the Internet. Presented: IT Works: Information Technology at Work in Agriculture, Business and Communities, December 2, 1999.

Lockinger L, Bidwell J, McDuffie HH, Hagel LM, Dosman JA, Lupescu C. Development of a Multi-Faceted Respiratory Health Program for Farmers. Presented: Agricultural Safety and Health in a New Century, Cooperstown, NY, April 2000.

Rennie DC. Respiratory Health in the Souris Basin Area. Presentation at: The Souris Basin Air Quality and Health Symposium, Saskatoon, Saskatchewan, January 1999.

Rennie DC, Dosman JA, Senthilselvan A. Association Between Acute Respiratory Symptoms and Environmental Exposures in a General Population of School Children. American Journal of Respiratory and Critical Care Medicine, 1999; 159 (supp): A430.

Rennie DC, Haffner J & Bolley B. The ACT Wilf Churchman Camp for Kids: An Interdisciplinary Approach to Asthma Management and Education. Presented at: International Council of Nurses Centennial Conference Program, London, England, 1999.

Rennie DC, Ramlell, K. & Kelm C. Applied Collaborative Practice for Post Secondary Students: The Example of the Wilf Churchman Asthma Camp for Kids. Presented at: Canadian University Schools of Nursing Conference, Vancouver, B.C., 2000.

CONGRATULATIONS:

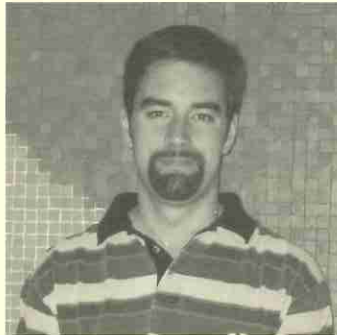
Ms. Shelley Kirychuk, R.N., B.S.N., defended her Master's thesis on May 11, 1999 at the University of Iowa for completion of her Master's of Preventive Medicine with emphasis in Industrial Hygiene **Thesis title:** "Oil/Water Sprinkling Intervention in a Swine Confinement Unit"

Dr. Debra Morgan was appointed, in July 1999, a faculty member at the Centre for Agricultural Medicine.

Dr. Donna Rennie was promoted to Associate Professor and has been granted tenure from the College of Nursing.

AWARDS:

The 1999 Anastacia Perekopsky Summer Science Project for Agricultural Medicine Scholarship was awarded to **Dr. Michael Routledge** of Winnipeg, MB. to work at the Centre for Agricultural Medicine on the Grain Workers Health Surveillance Program.



Dr. Michael Routledge

Dr. Debra Morgan received a 5 year scholarship grant from the MRC Regional Partnership Program to continue her research into the care of rural elderly with dementia.



Dr. D. Morgan and Economic and Co-operative Development Minister Janice MacKinnon

Darren Gronvold was co-awarded the Annie I. Earle Award for Nurses. This scholarship money is first applied toward outstanding tuition fee, if any, and the remainder is forwarded to him.

One of the recipients of The College of Nursing Crawford Scholarship was master student **Connie Lupescu**. The amount awarded was given to help defray research expenses.

Ms. Punam Pahwa defended her PhD thesis entitled "Statistical Modelling of Longitudinal Pulmonary Function Data" on March 10, 2000. Congratulations Dr. Pahwa!!

RETIREMENT:

July 1999 **Mrs. Day** retired as executive secretary of the Centre for Agricultural Medicine.

In 1978 Mrs. Day was hired to work in the Division of Respiratory Medicine, with salary support from the Saskatchewan Lung Association, to type the proceedings of the 1st International Symposium - Occupational Pulmonary Disease: Grain Dust and Health. In 1980 she was hired full-time in Respiratory Medicine as secretary to Dr. James Dosman. When Dr. Dosman formed the Centre for Agricultural Medicine in 1986, she became Executive Secretary of the Centre, and has been with the Centre and Dr. Dosman ever since. Since 1986, the Centre has moved from Ellis Hall to Royal University Hospital The Centre has a complement of approximately 20 faculty, staff and students.



Mrs. Ruth Day

GOOD-BYE:

The Centre is saying good-bye to a wonderful researcher, professor and friend. **Dr. Ambikaipakan Senthilselvan** left the Centre in March 2000 after 10 years of service. He assumes a new and challenging position as a Senior Statistician at the Department of Public Health Sciences, Faculty of Medicine and Oral Health Sciences, at University of Alberta, Edmonton. Good luck in this new endeavor.



Dr. Ambikaipakan Senthilselvan

WELCOME:

Mrs. Iris Rugg assumed the position of executive secretary of the Centre for Agricultural Medicine after Mrs. Ruth Day's retirement.

James Gomes, PhD, started a fellowship with the Centre in August 1999.

VISITOR SCIENTISTS:

A new visitor scientist program was established at the Centre. Dr. Norma Stewart and Dr. Alan Cessna spend one day a week at the Centre working with faculty and staff on scientific endeavors.