

## MESSAGE FROM THE CHAIR:



Dennis Banda and LuAn Mitchell

### Celebrating the Past, Reaching to the Future

In this my last report as Dean of the College of Medicine I would like to indicate how excited I am at the celebrations that are planned for the 15<sup>th</sup> anniversary party of the Centre for Agricultural Medicine and the birth of the Institute of Agricultural Rural and Environmental Health.

As one of the world's leading centres on issues related to health in agriculture and related populations, the development and growth of our Centre has naturally necessitated a look at where we have been and where we need to go.

After a period of study, we decided that we needed to expand our boundaries by creating the Institute of Agricultural Rural and Environmental Health (I•ARE•H). The Institute will have four competencies: agricultural medicine, occupational medicine, environmental health and rural health delivery. The expression of our competency in **agricultural medicine** will continue to be the Centre for Agricultural Medicine as it continually reaches out to the farmers and rural people of Saskatchewan. The competency in **occupational medicine** is being expressed through a firm that we are establishing to deliver occupational health services in Saskatchewan and beyond, which we have called CANWORKSAFE. The competency in **environmental health** represents ongoing and increasing skills in such areas as air quality, water quality and its effect on the health of rural people and others. The competency in **rural health delivery** is being enhanced by two faculty members now devoting their efforts to ways of improving rural health delivery for the people of Saskatchewan. In order to provide the thrust that will put the Institute of Agricultural Rural and Environmental Health into orbit, we have established the Founding Chairs National Partners Fund.

We are grateful to LuAn Mitchell, Chairperson of the Board, Mitchell's Gourmet Foods Inc., and Dennis Banda, President and Chair, Federated Co-operatives Ltd. for their willingness to lead us in the Founding Chairs National Partners Fund. It is our hope that the Founding Chairs National Partners Fund will provide the thrust towards excellence that the original Founding Chairs Program has provided in the establishment of the Centre for Agricultural Medicine some 14 years ago.

At the same time, we are excited at the leadership provided by Mr. Sinclair Harrison, President of the Saskatchewan Association of Rural Municipalities. Our sincere appreciation goes to the some 880 reeves, councillors and administrators and the one hundred and eleven rural municipalities who make these decisions and facilitate the local programming.

Our Centre has reached out across Canada to form the Canadian Rural Health Consortium, and as the founder of the Canadian Coalition for Agricultural Safety and Rural Health we are proud that its national head office is located at the Centre, and that our national newsletter CANFARMSAFE penetrates more than 200,000 farm locations in Canada.

In all, a wonderful record as we reach to the future with the development of the Institute for Agricultural Rural and Environmental Health, the I•ARE•H.

In closing, I would like to thank all those individuals and organizations that make the Centre possible: support from the Administration of the University of Saskatchewan, our continuing support from Saskatchewan Health as the core funder of the Centre, our new arrangement with Saskatchewan Labour enabling the development of our occupational health program, and our relationship with Saskatchewan Agriculture and Food in assisting in bringing our injury

and surveillance findings to the farmers and agricultural people of Saskatchewan.

Let me say that assisting in the leadership of the Centre for Agricultural Medicine has been one of the most rewarding aspects of my Deanship. It is exciting to be leaving the Chair of the Board with the knowledge that we are beginning a new era.

My sincere thank you to each member of the Board of Directors, as well as the faculty, staff and students of the Centre for Agricultural Medicine.

We are making Saskatchewan unique!

Sincerely

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

## RESEARCH:

### Rural Dementia Care: Special Care Units vs. Integrated Facilities.

The prevalence of Alzheimer Disease and other dementias in Canada is predicted to increase from 364,000 to 778,000 persons by 2031. To begin to address the needs of rural elderly with dementia in Saskatchewan, we conducted a pilot study in one rural health district in 1998. The study identified a number of challenges in meeting the needs of residents with dementia in rural nursing homes, especially when they were integrated with other residents with different needs. Many urban nursing homes have addressed these issues by developing separate Special Care Units for dementia care, but these units are less common in rural areas. In the current study we are comparing all 10 existing rural Special Care Units in Saskatchewan to 10 same-sized rural facilities that do not have such units. Data were collected between June and October, 2000, and included information related to residents with dementia, the physical and social environments, and staff and family caregivers. Data entry and analysis are currently underway. The research team includes Debra Morgan, Centre for Agricultural Medicine; Norma Stewart, College of Nursing; and Carl D'Arcy, Applied Research, University of Saskatchewan.

### Case-Control Study of Farm Machinery Injuries - Prairie Region of Canada

The overall objective of the study is to identify potentially modifiable risk factors associated with the individual, the environment and the farm machine, with a view to applying this knowledge to appropriate injury prevention strategies. The study is being conducted by an interdisciplinary team of investigators from the Universities of Saskatchewan, Alberta and Manitoba led by Dr. James Dosman. Data for the study is currently being collected. Cases of persons injured in farm machinery-related injury events are being recruited prospectively at sentinel hospitals located throughout the provinces of Saskatchewan, Alberta and Manitoba. Not injured control subjects are being recruited from the population of farmers living in the same provinces as the case subjects. A unique feature of the study is the direct, on-site assessment of the machines involved in the injury event and corresponding machines operated

# SUMMARY OF ACTIVITIES

## AWARDS:

**Dr. Punam Pahwa** received a Student Travel Award from the Biostatistics Section of the Statistical Society of Canada, to attend the International Conference of Statistics and Health, June, 2000.

**Dr. James Gomes** received a Postdoctoral Fellowship Award through the Prostate Cancer Research Initiative Program. Funded jointly by the Canadian Institute of Health Research (CIHR) and the National Cancer Institute of Canada (NCIC) with funds from the Canadian Cancer Society (CCS).

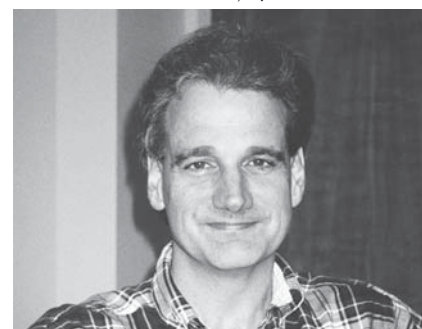
**Mrs. Roxanna Kaminski** received a bursary of \$850 from the Saskatchewan Nurses Foundation to help her Masters' research proposal on qualitative research on "Lived Experience of Spouses of Farmers who have been Injured in a Farming Incident".

**Mrs. Hope Bilinski** was granted a Sask Wheat Pool scholarship to help with her thesis research entitled "Physical Activity Levels in a Sample of Saskatchewan Rural Children".

## VISITOR SCIENTISTS:



**Dr. Amanda Young** arrived from Australia on August 1st, 2000 and undertook a three-month post-doctoral experience at the Centre. Dr. Young's areas of interest centers around the impact of serious injury with practical focus oriented toward identifying ways to optimize the return-to-work outcomes achieved by those who become disabled as a result of their injury.



**Dr. Robert J. Brison** is the 2001 Senator Norman M. Paterson visiting professorship. Dr. Brison is an Associate Professor and Director of Research in the Department of Emergency Medicine, Department of Surgery, Faculty of Health Sciences, Queen's University.

Dr. Brison research interests include injury using Emergency Department data; the study of farm related injuries; and whiplash syndrome. He is currently the Director of the Canadian Agricultural Injury Surveillance Program and is actively engaged as co-investigator in several research projects including the Evaluation of NAGCAT using a Case Series of Farm Injuries in Children.

**Pahwa P, Senthilselvan A.** Is There Any Observational Error Associated with Measurements of Longitudinal Lung Function Data? **Presented:** International Conference of Statistics and Health, Edmonton, Alberta, June 2000.

**Pahwa P, McDuffie HH, Spinelli J, McLaughlin JR, Dosman JA, Fincham S, Robson D.** Non-Hodgkins Lymphoma, Hodgkin's Disease and Pesticide Exposure: Regional Differences. **Presented:** International Society for Environmental Epidemiology, Buffalo, New York, Aug. 2000.

**Pahwa P, Senthilselvan A.** Observational Error Associated with Measurements of Longitudinal Lung Function Data. **Presented:** International Society for Environmental Epidemiology., Buffalo, New York, Aug. 2000.

**McDuffie HH, Pahwa P, Spinelli JJ, McLaughlin JR, Dosman JA, Fincham S, Robson D.** Non-Hodgkin's Lymphoma and the Pesticide Hypothesis: Dose-Response. **Presented:** International Society for Environmental Epidemiology., Buffalo, New York, Aug. 2000.

**Hagel L, Dosman JA, Voaklander D, Senthilselvan A, McDuffie HH, Pahwa P, Harrell A, Wasserman J, Crowe T.** Case-Control Study of Farm Machinery Injuries - Prairie Region of Canada - Design and Methods. **Presented:** Rural and Remote Health: Exploring the Issues, Making the Connections, October 21-23, Ottawa, Canada.

**Hagel L, Dosman JA, Rennie D.** Fatal and Hospitalized Machinery Related Injuries on Saskatchewan Farms, 1990 to 1997. **Presented:** Rural and Remote Health: Exploring the Issues, Making the Connections, October 21-23, 2000, Ottawa, Canada.

## WELCOME:



**Niels Koehncke, MD, MSc, FRCPC.** Dr. Koehncke joined the Centre for Agricultural Medicine in August of 2000. He is the Coordinator of a new Occupational Medicine Clinic at the University of Saskatchewan and will be involved in research and teaching initiatives through the Centre. As well, he will function as the Chief Occupational Medical Officer for the province providing consultation to Saskatchewan Labour on occupational health and safety issues.

Dr. Koehncke's areas of interest include: clinical consultative work, preventive health programs, industrial hygiene, and occupational noise exposure. WELCOME NIELS!

## BYE .. BYE:

Mrs. Connie Lupescu left the Centre on August 2000 and moved to Lakeland, Florida, USA.

Mrs. Vera Ljubovic left her position as clinical secretary at the Centre and accepted a new position at TR Labs as an Office Administrator.

**Bidwell J, Lockinger L, Clark S, Lupescu C, McDuffie HH, Dosman JA.** Farmers and Respiratory Health: Where Are We? **Presented:** The Sixth Annual 2000 Canadian Farm Safety and Health Conference, Ottawa, Ontario, October 22-24, 2000.

**Lockinger L, Bidwell J, McDuffie HH, Hagel LM, Dosman JA, Lupescu C.** Development of a Multifaceted Respiratory Health Program for Farmers. **Presented:** The Sixth Annual 2000 Canadian Farm Safety and Health Conference, Ottawa, Ontario, October 22-24, 2000.

**Gomes J, Lloyd O, Revitt DM.** Behavioural Observations Among Mice During Chronic Exposure to a Mixture of Organophosphorus Pesticides. **Presented:** International Society for Environmental Epidemiology, ISEE 2000, August 19-23, 2000, Buffalo, New York, USA.

**Gomes J, Lloyd O, Anilal SV.** Congenital Malformations from Chronic Exposure to a Mixture of Organophosphorus Pesticides. **Presented:** International Society for Environmental Epidemiology, ISEE 2000, August 19-23, 2000, Buffalo, New York, USA.

**Gomes J, Smith PJ, McDuffie HH.** Prostate Cancer Among Rural and Urban Men in Saskatchewan, 1969-1998. **Presented:** International Society for Environmental Epidemiology, ISEE 2000, August 19-23, 2000, Buffalo, New York, USA.

**Smith PJ, Osei W, Gomes J, Malowany K.** Esophageal and Gastric Adenocarcinoma in Saskatchewan Men by Residence Type. **Presented:** International Society for Environmental Epidemiology, ISEE 2000, August 19-23, 2000, Buffalo, New York, USA.

**Gomes J, Skarsgard D, McDuffie HH.** Prostate Specific Antigen (PSA) and Prostate Tumor Characteristics Among Farmers and Others. **Presented:** Rural and Remote Health: Exploring the Issues, Making the Connections. October 21-23, 2000, Ottawa, Ontario.

**Gomes J, McDuffie HH.** Genetic and Hormonal Instability in Agricultural Workers with Benign Prostatic Hyperplasia or Prostate Cancer. **Presented:** Rural and Remote Health: Exploring the Issues, Making the Connections. October 21-23, 2000, Ottawa, Ontario.

**Gomes J, McDuffie HH.** Prostate Tumor Characteristics and Prostate Specific Antigen (PSA) Levels Among Farmers with Prostate Cancer. **Presented:** Impact of Biotechnology on Cancer Diagnostics and Prognostic Indicators, Geneva, Switzerland, October 28-31, 2000.

**Gomes J.** Pesticides Use and Environmental Health. **Presented:** Exploring Sustainable Alternatives, Organized by the Canadian Centre for Sustainable Agriculture, December 8-10, 2000, Humboldt, Saskatchewan.

**Gomes J.** Simulated Estimation of Dietary Intake of Multiple Pesticide Residues from Agricultural Produce. **Presented:** Exploring Sustainable Alternatives. Organized by the Canadian Centre for Sustainable Agriculture, December 8-10, 2000, Humboldt, Saskatchewan.

**McDuffie HH, Pahwa P, Fincham S, Spinelli JJ, McLaughlin JR, Dosman JA, Robson D.** An Exploration of the Role of Family History of Cancer Among Four Rare Types of Cancer. *American Society for Human Genetics*, 2000; Supplement 2, 67(4) : 97.

by non-injured farmers by an agricultural engineer. The inclusion of this important feature was made possible through the participation of the Prairie Agricultural Machinery Institute. The study boasts an international collaboration through the participation of an injury epidemiologist from the Accident Research Centre of Monash University, Melbourne, Australia. This collaboration provides the foundation for the potential pooling of data collected in farm machinery injury studies conducted on each continent. Funded by the Canadian Institutes for Health Research. The anticipated completion date for study is March 31, 2003.

#### Saskatchewan Farm Injury Surveillance Program - in collaboration with the Canadian Agricultural Injury Surveillance Program.

The Centre for Agricultural Medicine is the provincial collaborator for the Canadian Agricultural Injury Surveillance Program (CAISP). The purpose of CAISP is to describe the magnitude and severity of fatal and hospitalized farm injuries in Canada. The patterns of injury described by the surveillance data serve to inform the farm community, health and safety specialists, researchers and policy makers about the nature of the injury problem, and to identify issues for further investigation and specific prevention initiatives. In Saskatchewan, data for the surveillance program are collected retrospectively from existing mortality and morbidity databases. In the first round of surveillance, cases of fatal farm injuries were identified from the mortality data bases of the Provincial Coroner's Office, Department of Justice and the Occupational Health and Safety Division, Saskatchewan Labour. Cases of non-fatal hospitalized farm injuries were identified from the hospital discharge database of Saskatchewan Health with the co-operation of all the Health Districts of the province. The first ever, comprehensive report on fatal and hospitalized farm injuries in Saskatchewan was published in June, 2000 and described in detail the patterns of fatal and disabling farming related injuries in Saskatchewan for the period from 1990 to 1996. The second round of surveillance is currently underway. It is anticipated that data collection will be completed and an updated report published in June 2002. Funding for the surveillance program in Saskatchewan is provided by the Centre for Agricultural Medicine and by CAISP through a grant provided by the Canadian Agricultural Safety Program of Agriculture and Agri-food Canada and the Canadian Coalition for Agricultural Safety and Rural Health. The investigators for the Saskatchewan collaboration with CAISP are Dr. Donna Rennie and Ms. Louise Hagel.

#### Direct Cost of Unintentional Farm Injuries

The purpose of this study is to determine the direct costs of hospitalization and outpatient medical treatment for those who experienced unintentional farm injuries during the period from April 1, 1997 to March 31, 2000. Data for the study is being collected for cases identified by the Saskatchewan Farm Injury Surveillance Program (CAISP). Estimates for direct cost of hospital inpatient treatment will be made through information provided from the pertinent administrative data bases of Saskatchewan Health and the Canadian Institute of Health Information. It is anticipated that data collection will be completed by March, 2002. Funding for the study was provided through a Scientific Teaching and Research Grant, College of Medicine, University of Saskatchewan. The principal investigator is Dr. Punam Pahwa of the Centre for Agricultural Medicine. Members of the research team include Ms. Louise Hagel and Dr. Donna Rennie of the Centre for Agricultural Medicine, Dr. Suren Kulshreshtha of the Department of Agricultural

Economics and Dr. Glen Beck of the Department of Economics, all of the University of Saskatchewan.

#### Co-ordinator, Occupational Health Unit and Chief Occupational Medical Officer.

An Outpatient Occupational Health Clinic has been established at the University of Saskatchewan to receive referrals from all over the province. The Chief Occupational Medical Officer, who's office is housed in the Centre for Agricultural Medicine, has been providing consultation to Saskatchewan Labour on occupational health and safety issues on short and long term projects. These projects included worksite visits and hazards evaluation, and assisting officers with issues arising out of their inspections. Visits and inspections have included potash and uranium mines and a number of other sites, in and around Saskatoon. Establishment of a policy on the use of needle safety devices for hospitals in Saskatchewan, development of a vaccination guide for workers potentially exposed to infectious diseases, and preparation of an infection control plan for first aid providers in Saskatchewan are a few of the ongoing projects.

#### A Study of Asthma Prevalence in School Children in Estevan and Swift Current.

Data collection looking at asthma prevalence in school children from Estevan and Swift Current was completed in April 2000. During the summer and fall of 2000, data entry and clean-up were completed by a student at the Centre for Agricultural Medicine. Air quality data was obtained from SaskPower Corporation. Initial results were presented at the Saskatchewan Thoracic Society, the South East Health District Board of Directors meeting and at the 2001 International Conference of the American Thoracic Society in San Francisco. Data from this project will be used by J.Lawson, Graduate Student for a master's thesis in the Department of Community Health and Epidemiology. The next steps in the project include visits to Swift Current and Estevan to further communicate results. More analysis of the data will be conducted in order to look at the risk factors associated with asthma in these two communities. The research team includes: Rennie DC, Senthilselvan A, McDuffie HH and Cockroft D.

#### GRANTS RECEIVED:

McLeod M, Kulig J, Stewart N, Pitiblado R, Curran F, D'Arcy C, Forbes D, Lazure G, Martin-Misener R, Morgan D, Morton A, Remus G, Smith B, Thomlinson E, Vogt C. The Nature of Nursing Practice in Rural and Remote Canada. Canadian Health Services Research Foundation, \$592,000; Canadian Health Services Research Foundation in association with various provincial and territorial health organizations and registered nurses associations.

Hagel, L., Rennie, D. Canadian Agricultural Injury Surveillance Project (CAISP), Saskatchewan Collaborators, April, 1998 - March 1999, \$14,000, Canadian Agriculture Safety Program, Agriculture and Agri-Food Canada.

Pahwa, P., Hagel, L., Kulshreshtha, S., Beck, G., Rennie, D. Direct Cost of Unintentional Farm Injuries, \$10,000, Scientific Teaching and Research Grant, College of Medicine, University of Saskatchewan.

The Rural Health Extension Program applied to the "Cyril Capling Trust Fund", U of S, to develop a photography exhibition, "Off Guard". The award was \$8,750.

Dosman J, McDuffie HH, Bidwell J, Lockinger L.

National Preventative Materials & Communication Program 2000-2001. Canadian Agriculture Safety Program, \$ 77,000.

McDuffie HH, Lockinger L, Bidwell J, Dosman J. Provincial Preventative Materials & Communication Program 2001-2001. Saskatchewan Agriculture Safety Program, \$ 24,000.

#### SERVICES:

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

(a) develop and distribute agricultural health and safety resource materials; (b) develop and implement agricultural health and safety programs.

RHEP includes the Agricultural Health and Safety Network (the Network), a cooperative venture in which the Centre and the Saskatchewan Association of Rural Municipalities (S.A.R.M.) joined forces to provide agricultural health and safety services to Saskatchewan farm families. The Network continues to receive direction from a steering committee, the members representing each of the six S.A.R.M. divisions.



Dr. J.A. Dosman and Mr. Sinclair Harrison

**Agricultural Health and Safety Network:** At SARM's annual convention, Dr. James Dosman announced the "Sinclair Harrison Prize" to be awarded to a farm family in the division that is the first to enrol all of its rural municipalities (R.M.s) in the Agricultural Health and Safety Network. The prize, an all-expenses-paid trip to Disneyland, will be funded by Sinclair Harrison, president of S.A.R.M. This publicity incentive has challenged R.M.s to enrol their farm families in an agricultural health and safety program, unique to North America. In the month following the challenge, the Network's membership rose to 103 RM's encompassing more than 20,000 farm families.

**Farm Injury Control Summit II:** Nearly 100 delegates from across the province attended the November 22nd Summit sponsored by Saskatchewan Agriculture and Food, S.A.R.M., and the Centre. Delegates represented community agencies, organizations, health districts, farm families, rural municipalities and provincial government. The day's events; Keynote speakers, break-out sessions, and a strategy fair, all aimed at raising awareness to reduce Saskatchewan agricultural injuries and fatalities.

**Radio Contest:** Using the radio as a new medium for promoting agricultural health and safety, RHEP collaborated during the peak harvest season with two stations, CJWW and CBC and numerous sponsors to conduct a two week radio contest which challenged farm families to phone in and answer farm safety questions to compete for prizes.

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**"Off Guard":** The Rural Health Extension Program has collaborated with other departments at the University of Saskatchewan and the community at large to create "Off Guard", a photography exhibition of twenty individuals injured in farm machinery incidents. A catalogue produced in conjunction with the exhibition will be used as an educational resource for the prevention of farm machinery deaths and injuries. The exhibition opened July 20, 2001 at the Kenderdine Gallery and will tour Saskatchewan on behalf of the Organization of Saskatchewan Arts Councils in 2002-03. Partners in the project include the Saskatchewan Abilities Council, the Saskatchewan Farm Injury Surveillance Program, the Department of Art and Art History, the Kenderdine Gallery at the College of Agriculture and the Saskatoon Photographers' Gallery. Funding assistance was provided by the College of Agriculture's Cyril Capling Trust Fund and the Canadian Agriculture Safety Program.

**Program Delivery:** During the winter, staff delivered the *Respiratory Health Program for Farmers* to the RM of Wolverine, #340 and eight *Farm Response* courses to approximately 85 participants. After completing Farm Response, Network-member participants obtained First Aid/CPR training and have been reimbursed by the Network for these costs.

**Publications:** A fact sheet entitled *Preventing Farm Machinery Entanglements*, coloring book (*Driveline Safety*), and the Network News were mailed to Network member farm families in Saskatchewan. In Spring of 2001, *CANFARMSAFE*, a national agricultural health and safety newsletter, was expanded and reformatted into a 16 page magazine. The publication, printed in both official languages, continues to be inserted into newspapers across the country. A feasibility study completed by the College of Commerce will offer RHEP staff insight into improvements for the publication.

**Promotion:** RHEP has delivered presentations and has staffed booths at shows such as the Western Canada Farm Progress Show and the Crop Production Show and local events such as the Humboldt Farm Family Community Forum, Carrot River Community Health Fair and the R.M. of Perdue, #346, Annual Ratepayer Meeting.

**Presentations:** RHEP has completed and pilot tested two presentations that are available for sale or loan:

- *Tractor Rollovers and Run Overs - Can you prevent one on your farm?*
- *Rural Stress - Coping with Tough Realities.* They consist of a colored visual presentation, speaker's notes, additional information for the presenter, quizzes and printed resources.

**Partnerships:** Organizations such as the Saskatchewan Association of Rural Municipalities, North Valley Health District and Midwest Health District continued to be involved with RHEP's activities as partners in a variety of ways. Significant financial support has been received from the Canadian Agriculture Safety Program and Saskatchewan Agriculture and Food. Other generous donations such as 10,500 copies of the *Watch for Wires* decal and 8,750 copies of the *Driveline Safety Coloring Book* from Sask Power and Walterscheid, Inc. respectively have been received by RHEP.

**S.A.R.M. 90<sup>th</sup> Anniversary Student Scholarship:** Each year at the S.A.R.M. convention, a grade 12 student receives a \$1,000 scholarship for a well written farm safety essay. This award, initiated in 1996 with funds from S.A.R.M. and continued support from the Founding Chairs Fund of the Centre, is awarded annually to a student to help them pursue post-secondary education



Tracy Gerspacher RM of Spalding

in an agricultural or health related field of study. The winning essay, *Safety and Health Hazards on My Farm*, was written by Tracy Gerspacher from the R.M. of Spalding, #368. Tracy lives on a grain farm, north of Watson.

#### PAPERS AND PUBLICATIONS:

**Masley ML, Semchuk KM, Senthilselvan A, McDuffie HH, Hanke P, Dosman JA, Cessna AJ, Crossley MFO, Irvine DG, Rosenberg AM, Hagel LM.** Health and Environment of Rural Families: Results of a Community Canvass Survey in the Prairie Ecosystem Study (PECOS). *Journal of Agricultural Safety and Health*, 2000; 6(2): 103-115.

**Pizzichini MMM, Rennie D, Senthilselvan A, Taylor B, Habbick BF, Sears MR.** Limited Agreement Between Written and Video Asthma Symptom Questionnaires. *Pediatric Pulmonology*, 2000; 30:307-312.

**McDuffie HH, Pahwa P, Spinelli JJ, McLaughlin JR, Fincham S, RobsonD, Dosman JA, Hu J.** Canadian Farm Residents, Specific Behaviours, Exposure to Animals and Non-Hodgkin's Lymphoma (NHL), Accepted : *American Journal of Industrial Medicine*, December, 2000.

**JA Dosman, HH McDuffie,** Saskatchewan Agriculture Injury Control Program Report. "Sow Safety, Harvest Life". June 2000

**Koehncke N, Taylor M, Taylor C, Harman L, Hessel P, Beaulne P, Guidotti T.** An Investigation of Noise Exposure in Alberta Sawmills". Submitted: *American Journal of Industrial Medicine*, January 2001.

**Rennie, D.C., Baird-Crooks, K., Remus, G., Engel, J.** *Rural Nursing in Canada*, In Bushy, A.(Ed.), Orientation to Nursing in the Rural Community, 2000; 217-231. Thousand Oaks, CA: Sage.

**Hagel L, Rolland E, Pickett CWL, Brison RJ** and the Canadian Agricultural Injury Surveillance Program (CAISP). Fatal Farm Injuries in Canada, 1990-1998: a report from the CAISP program. April 2001.

**Hagel L, Rennie D.** Fatal and Hospitalized Farm Injuries in Saskatchewan, 1990-1996. A report from the Saskatchewan Farm Injury Surveillance Program of the Canadian Agricultural Injury Surveillance Program, Centre for Agricultural Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, June, 2000.

#### CONTRIBUTED PAPERS IN PUBLISHED CONFERENCE PROCEEDING AND ABSTRACT:

**Ingram M, Crowe T, Wassermann J.** Farm Machinery Accidents: Machinery Evaluation. **Presented:** 2000 North Central CSAE/ASAE Conference, September, 2000, Moorhead, MN.

**Lawson, J, Senthilselvan A, Rennie D, Dosman JA, Pahwa P.** Predictors of Asthma Hospitalization Among a Population Cohort of Saskatchewan Asthmatics. **Presented:** American Thoracic Society, May 18-23, 2001. San Francisco, CA.

**Mpofu D, McDuffie HH, Rennie D.** Using a Community Based Approach in Prenatal Education, An Adaptation of Problem-Based Learning for Rural Health Populations. **Presented:** Rural and Remote Health: Exploring the Issues, Making the Connections, October 21-23, 2000, Ottawa, ON.

**Morgan D, Semchuk K, Stewart N, D'Arcy C.** Job Strain in Staff of Rural Long-term Care Facilities. **Presented:** The Gerontological Society of America 53<sup>rd</sup> Annual Scientific Meeting, Washington, DC. November 17-21, 2000.

**Morgan D, Semchuk K, Stewart N, D'Arcy C.** Dementia Care in Rural Long-term Care Facilities: Integration vs. Segregation. **Presented:** Canadian Association on Gerontology 29<sup>th</sup> Annual Scientific and Educational Meeting, October 26-28, 2000, Edmonton, AB.

**Stewart N, Morgan D.** Methods for Linking (Social and Non-social) Noise to Patterns of Behaviour of Cognitively Impaired Facility Residents. **Presented:** Canadian Association on Gerontology 29<sup>th</sup> Annual Scientific and Educational Meeting, October 26-28, 2000, Edmonton, AB.

**Dosman JA, Lockinger L, Bidwell, J, de Freitas SB, McDuffie HH, Hagel L, Rennie D, Normand S.** Sow Safety, Harvest Life. **Presented:** Rural and Remote Health: Exploring the Issues, Making the Connections, October 21-23, 2000, Ottawa, ON.

**McDuffie HH, Pahwa P, Fincham S, Spinelli JJ, McLaughlin JR, Dosman JA, Robson D.** Comparison of Family Histories of Cancer Among Cases of Hodgkin's Disease, Multiple Myeloma, Non-Hodgkin's Lymphoma, Soft Tissue Sarcoma and Control Subjects. Proceedings of the American Association for Cancer Research 92<sup>nd</sup> Annual Meeting, New Orleans, LA, Volume 42, #2695, March 2001.

**Hagel L, Dosman JA, Voaklander D, Senthilselvan A, McDuffie HH, Pahwa P, Harrell A, Wasserman J, Crowe T.** Case-Control Study of Farm Machinery Injuries - Prairie Region of Canada - Design and Methods. Presented: Rural and Remote Health: Exploring the Issues, Making the Connections, October 21-23, Ottawa, Canada

**Hagel L, Dosman JA, Rennie D.** Fatal and Hospitalized Machinery Related Injuries on Saskatchewan Farms, 1990 to 1997. Presented: Rural and Remote Health: Exploring the Issues, Making the Connections, October 21-23, 2000, Ottawa, Canada

**Bidwell J.** CASP Project: Tractor Rollovers and Run Overs: Can You Prevent One on your Farm? **Presented:** The Sixth Annual 2000 Canadian Farm Safety and Health Conference, Ottawa, Ontario, October 22-24, 2000.