

**Curriculum Vitae For James Kenneth Daun**  
**Prepared for the G.C.I.R.C.**

As head of the Oilseeds Section of the Canadian Grain Commission's Grain Research Laboratory is responsible for carrying out programs of research and crop monitoring on the quality of Canadian Oilseeds including canola and rapeseed, linseed, sunflower seed, soybeans and mustard seed. Prior to this current position obtained M.Sc. (1973) and Ph.D. (1975) degrees in Plant Science (Grain Technology) at the University of Manitoba. Between graduation with B. Sc. (University of Manitoba, 1967) and Graduate School (1969) worked as an analytical technologist for Atomic Energy of Canada, Pinawa, Manitoba.

Member of the Prairie Registration Recommending Committee for Grain and chairperson of its Working Group on Oilseeds Quality. This committee is responsible for evaluation of the quality of new varieties of grains and oilseeds submitted for Registration under the Canada Seed Act.

Member of the Manitoba Sunflower Committee which has a similar role for sunflowers.

Member of the Canadian Government's Expert Committee on Fats, Oils and other Lipids, a committee which is responsible for recommending research priorities in the general area of fats, oils and lipids.

Member of Canadian Advisory Committee ISO/TC 34/SC 2 (Oleaginous Seeds and Fruits) and has represented Canada at the 1985, 1987 and 1989 meetings of the International Subcommittee.

Member of the Canadian Advisory Committee ISO/TC 34/SC 11 (Animal and Vegetable Fats and Oils) and has represented Canada at the 1989 meeting of the International Subcommittee.

Represented the Canadian Grain Commission at the Canada-Japan Rapeseed Consultations since 1981.

Member of the Flax Council of Canada's Market Development Committee and Research Committee.

Serves as a resource lecturer in Oilseeds Technology for the Canadian International Grains Institute.

Is an adjunct professor at the University of Manitoba, Department of Plant Sciences.

Member of American Oil Chemists' Society and is chairperson of the Seed and Meal analysis committee, member of the Awards administration committee and is Program Chairperson for the 1992 meeting.

Was program chairperson for the 1986 and 1987 meetings of the Canadian Section and is currently President of the Canadian Section.

Has also been active in the Canadian Institute of Food Science and Technology serving on the local executive in several positions, has been a local director for the Canadian Institute of Chemistry and is a member of Sigma Xi.

**I. Publications in Scientific Journals**

- (GRL 630) Clear, R. M., T. W. Nowicki and J.K. Daun, Soybean seed discoloration by Alternaria spp. and Fusarium Spp., the effects on quality and the production of fusariotoxins. Can. J. Plant Path. (Accepted for Publication).
- (GRL 635) Daun, J.K. and C.T. Thorsteinson, Determination of chlorophyll pigments in crude and degummed canola oils by HPLC and spectrophotometry. J. Amer. Oil Chem. Soc. (In Press).
- (GRL 626) DeClercq, D.R. and J.K. Daun, Determination of the total glucosinolate content in canola by reaction with thymol and sulfuric acid. J. Amer. Oil Chem. Soc. 66:788-791(1989).
- (GRL 584) Daun, J.K., Glucosinolate analysis in rapeseed and canola - an update. J. Japan Oil Chem. Soc. (Yukagaku) 35:426-434(1986).
- (GRL 605) Tkachuk, R., V.J. Mellish, J.K. Daun and L.J. Macri, Determination of chlorophyll in ground rapeseed using a modified near infrared reflectance spectrophotometer. J. Amer. Oil Chem. Soc. 65:281-385(1988).
- (GRL 592) Daun, J.K. and D.R. DeClercq, Quality of yellow and dark seeds in Brassica campestris canola varieties Candle and Tobin. J. Amer. Oil Chem. Soc. 65:122-126(1988).
- (GRL 569) Daun, J.K., L.D. Burch, R. Tkachuk, and H.H. Mundel, Composition of the kernels of the Faveleira nut (Cnodiscolus phyllacanthus). J. Amer. Oil Chem. Soc. 64:880-881(1987).
- (GRL 588) Matsuo, R.R., J.E. Dexter, A. Boudreau and J.K. Daun, The role of lipids in determining spaghetti cooking quality. Cereal Chemistry 63:484-489(1986).
- (GRL 585) Daun, J.K., L.A. Cooke and R.M. Clear, Quality, morphology and storability of canola and rapeseed harvested after overwintering in Northern Alberta. J. Amer. Oil Chem. Soc. 63:1333-1340(1986).
- (GRL 574) Daun, J.K., Glucosinolate levels in Western Canadian rapeseed and canola. J. Amer. Oil Chem. Soc. 63:639-643:(1986).
- (GRL 573) Daun, J.K., Erucic acid levels in Western Canadian rapeseed and canola. J. Amer. Oil Chem. Soc. 63:321-324(1986).
- (GRL 552) Daun, J.K., K.M. Clear and J.T. Mills, Effect of frost damage on the quality of canola (B. napus). J. Amer. Oil Chem. Soc. 62:715-719(1985).
- (CDA 1124) Mills, J.T., L. van Caeselle and J.K. Daun, Effect of frost on hull development of canola (Brassica napus L.). Can. J. Plant Sci. 64:841-848(1984).

- (GRL 525) Mills, J.T., K.M. Clear and J.K. Daun, Storability of frost-damaged canola. *Can. J. Plant Sci.* 64:529-536(1984).
- (GRL 532) Daun, J.K. and L.D. Burch, Oilseeds grading - quality control in oilseeds marketing. *J. Amer. Oil Chem. Soc.* 61:1117-1122(1984).
- (GRL 518) Daun, J.K., P.B. Mazur and C.J. Marek, Use of gas liquid chromatography for monitoring the fatty acid composition of Canadian rapeseed. *J. Amer. Oil Chem. Soc.* 60:1751-1754(1983).
- (GRL 477) Hseih, F.-H., J.K. Daun, and K.H. Tipples, The effect of rapeseed oil added to control grain dust on the quality of wheat. *J. Amer. Oil Chem. Soc.* 59:11-15(1982).
- (GRL 478) Daun, J.K., The relationship between rapeseed chlorophyll, rapeseed oil chlorophyll and percentage green seeds. *J. Amer. Oil Chem. Soc.* 59:15-18(1982).
- (GRL 472) Daun, J.K., L.D. Davidson, J.A. Blake, and W. Yuen, Comparison of methods for the analysis of phosphorus in canola oils. *J. Amer. Oil Chem. Soc.* 58:914-917(1981).
- (GRL M-118) Daun, J.K. and J. Biel, Variation on protein and oil content in whole rapeseed exported from Canada. *J. Amer. Oil Chem. Soc.* 57:380(1980).
- (GRL 437) Dorrell, D.G. and J.K. Daun, Effect of weather damage on the grade and quality of flaxseed. *Can. J. Plant Sci.* 60:799-805(1980).
- (GRL 428) Daun, J.K. and L.D. Davidson, Evaluation of two rapid procedures for the detection of low-glucosinolate rapeseed. *J. Amer. Oil Chem. Soc.* 57:52-53(1980).
- (GRL 409) Daun, J.K. and J.T. Mills, Incidence of heat-damage in rapeseed shipped from Western Canada 1974-1976. *Can. J. Agric. Econom.* 27:70-75(1979).
- (GRL 397) Daun, J.K., Mathematical method for estimating color of spaghetti and mustard flour. *Cereal Chem.* 55:692-698(1978).
- (UM 481) Daun, J.K. and F.W. Hougen, Identification of sulfur compounds in rapeseed oils. *J. Amer. Oil Chem. Soc.* 54:351-354(1977).
- (GRL 362) Daun, J.K., A rapid procedure for the determination of chlorophyll in rapeseed by reflectance spectroscopy. *J. Amer. Oil Chem. Soc.* 53:767-770(1976).
- (GRL 358) Daun, J.K. and R. Tkachuk, Fatty acid composition of oils extracted from Canadian weed seeds. *J. Amer. Oil Chem. Soc.* 53:767-770(1976).
- (UM 403) Daun, J.K. and F.W. Hougen, Sulfur in rapeseed oils. *J. Amer. Oil Chem. Soc.* 53:169-171(1976).

## II. Symposia and Conference Proceedings

- Daun, J.K., Monitoring Canadian rapeseed for erucic acid, glucosinolates and green seed. pp 49-58 in Proceedings of the Ninth Annual Meeting of the Rapeseed Association of Canada. 1976.
- D. G. Dorrell and J.K. Daun, Effect of seed damage on quality and grade of flaxseed. pp. 1-2 in Proceedings of the 47th Annual Meeting of the Flaxseed Institute of the United States. 1978.
- (GRL M-119) Daun, J.K., Rapeseed quality surveys - 1955 to 1977. pp.48-50 in Proceedings of the 5th International Rapeseed Congress, Malmo, Sweden. 1978.
- Daun, J.K., D.I. MacGregor and E.E. McGregor (eds.) Symposium on the Analytical Chemistry of Rapeseed and Its Products. Canola Council of Canada, Winnipeg, 1980.
- Daun, J.K. and B. Uppstrom, Methods used for analysis of rapeseed -- Crop monitoring. pp. 25-34 in Symposium on the Analytical Chemistry of Rapeseed and Its Products. Daun, J.K., D.I. MacGregor and E.E. McGregor (eds) Canola Council of Canada, Winnipeg, 1980.
- (GRL M-125) Daun, J.K. and B. Uppstrom, Summary of analytical methods used for characterization of rapeseed. pp. 15-25 in Symposium on the Analytical Chemistry of Rapeseed and Its Products. Daun, J.K., D.I. MacGregor and E.E. McGregor (eds) Canola Council of Canada, Winnipeg, 1980.
- (GRL M-126) Daun, J.K. and D.R. DeClercq, Use of thin layer chromatography coupled with flame ionization detection for the analysis of acetone insolubles in crude and refined rapeseed oils. pp. 128-136 in Symposium on the Analytical Chemistry of Rapeseed and Its Products. Daun, J.K., D.I. MacGregor and E.E. McGregor (eds) Canola Council of Canada, Winnipeg, 1980.
- Davidson, L.D. and J.K. Daun, Determining optimum conditions for Kjeldahl analysis of oilseeds. pp. 181-187 in Symposium on the Analytical Chemistry of Rapeseed and Its Products. Daun, J.K., D.I. MacGregor and E.E. McGregor (eds) Canola Council of Canada, Winnipeg, 1980.
- (GRL 516) Daun, J.K., Agronomic factors associated with high chlorophyll levels in rapeseed grown in Western Canada. pp. 132-137 in 6th International Rapeseed Congress Proceedings. GCIRC, Paris, 1985.
- (GRL 515) Daun, J.K., D.R. DeClercq and P.B. Mazur, The composition of wild mustard (*Sinapis arvensis* L.) and the effect of its admixture on the quality of rapeseed. pp. 1307-1312 in 6th International Rapeseed Congress Proceedings. GCIRC, Paris, 1985.
- Daun, J.K., Chlorophyll in Canadian canola and rapeseed and its role in grading. Proceedings of the 7th International Rapeseed Congress, Poznan Poland, May 11-14, 1987. p. 1451-1456.

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Daun, J.K. Oilseed quality control in Canada. Oilseeds Forum 89, Sydney, Australia (The Australian Oilseeds Federation) p. 89-97.

Daun, J.K. Grading of canola in Canada. Oilseeds Forum 89, Sydney, Australia (The Australian Oilseeds Federation) p. 129-137.

### III. Chapters in Books

- Daun, J.K., Chemistry in Agriculture. pp. 4-9 in Chemical Manitoba. The Chemical Institute of Canada (Manitoba Section) 1977.
- (GRL M-130) Daun, J.K. and W. Bushuk, Chapter II Rapeseed. pp. 257-297 in CRC Handbook of Processing and Utilization in Agriculture. Volume II:Part 2 Plant Products. Ivan A. Wolff (ed.). CRC Press, Inc. Boca Raton, 1983.
- (GRL M-131) Daun, J.K., The introduction of new rapeseed varieties into Canadian production. Chapter 7, pp. 161-179 in High and Low Erucic Acid Rapeseed oils J.K.G Kramer, F. Sauer and W. Pigden (eds.), Academic Press, Toronto, 1983.
- Daun, J.K., D.F. Adolfe, R.I. Buzzell, W. Dedio, R.K. Downey, D.J. Hume, E.D. Kenaschuk, A.L.D. Martin, J.R. Rogalski, and D. Woods, Oilseeds - Production. Chapter D-10, pp. 749-792 in Grains and Oilseeds, Handling, Marketing, Processing. Canadian International Grains Institute, Winnipeg, 1982.
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- Hougen, F.W., V.J. Thompson and J.K. Daun, Rapeseed lecithin. Chapter 5, pp. 79-95 in Lecithins, B.J. Szuhaj and G.R. List (eds.) American Oil Chemists' Society, Champaign, 1985.
- Daun, J.K. and D.I. McGregor. Chapter 5. - Glucosinolates in Seeds and Residues. In Analysis of Oilseeds, Fats and Fatty Foods. Edited by J.B. Rossell and J.L.R. Pritchard. Elsevier Publishing Company. In Press.

**IV. Articles in Journals and Miscellaneous Publications**

- F.W. Hougen, J.K. Daun, Sulphur compounds in rapeseed oil. pp. 14-15 in 4th Progress Report, Research on canola Seed, Oil, Meal and Meal Fractions. T.F. Sharby, G. Sarwar and J.M. Bell (eds.) Rapeseed Association of Canada, 1976.
- F.W. Hougen, J.K. Daun, Sulphur in canola oil and its implication in hydrogenation. pp. 205-210 in 7th Progress Report, Research on canola Seed, Oil, Meal and Meal Fractions. E.E. McGregor (ed.) Canola Council of Canada, 1983.
- (GRL M-134) Daun, J.K., Composition and use of canola seed, oil and meal. Cereal Foods World 29:291-296(1984).
- K.M. Clear and J.K. Daun, Chlorophyll in canola seed and oil. pp. 277-279 in 8th Progress Report, Research on canola Seed, Oil, Meal and Meal Fractions. E.E. McGregor (ed.) Canola Council of Canada, 1987.
- J.T. Mills, K.M. Clear and J.K. Daun, Storability of frost-damaged canola, pp. 280-286 in 8th Progress Report, Research on canola Seed, Oil, Meal and Meal Fractions. E.E. McGregor (ed.) Canola Council of Canada, 1987.
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- Daun, J.K. ISO Technical meeting report. J. Amer. Oil Chem. Soc. 65:340(1988).
- Daun, J.K. Flaxseed samples from Argentina. Flax Focus June, 1989, p. 2.
- Daun, J.K. Flaxseed grown in 1919. Flax Focus June, 1989, p. 2-3.