Curriculum Vitae

Winsome Jill Harrison

March 2003

Name: Mrs. Winsome Jill Harrison, nee Greenhalgh

Contact Address: Centre of Policy Studies / Impact Project
Room 1162, Menzies Building
Clayton Campus
Monash University
Clayton, VIC 3800
Australia

Phone: 9905-5483
Email JillHarrison@BusEco.monash.edu.au

Home Address: 27 Bond Street
Mt Waverley
Victoria 3149
Phone 9803-4129

Place of birth Brisbane, Australia

Current employment: (1992-2003)

Research Fellow, Centre of Policy Studies / Impact Project
Level A 1992-1996,
Level B 1996-1999,
Level C 2000-2003.

I was initially employed under an Australian Research Council Grant (1992-1993)

Academic Record:

BSc First Class Honours in Mathematics - (University of Queensland)

MSc - (University of Queensland) 'Mathematical Aspects of Electrochemical Kinetics'

Graduate Diploma of Computing (Monash University, Caulfield)

Previous Employment:

Mathematics Tutor,	University of Queensland
Mathematical Programmer,	Nelson Research Laboratories, English Electric Co, Stafford, England (Numerical solution of heat conduction problems)
Experimental Officer,	Division of Applied Geomechanics, CSIRO, Melbourne Numerical and analytical solution of elasticity problems related to stresses in soil and rocks.
Part-time Tutor,	Mathematics Department, Monash University, Clayton

Recent Publications

Harrison,W.J., K.R.Pearson, A.A.Powell and E.J.Small (1994) 'Solving Applied General Equilibrium Models Represented as a Mixture of Linearized and Levels Equations', *Computational Economics,* Vol 7 pp.203-223.

Harrison,W.J. and K.R.Pearson(1996) 'Computing Solutions to Large General Equilibrium Models Using GEMPACK', *Computational Economics,* Vol 9 pp.87-127.

Harrison,W.J., K.R.Pearson and Alan.A.Powell(1996) 'Features of Multiregional and Intertemporal AGE Modelling with GEMPACK', *Computational Economics,* Vol 9 pp.331-353.

Harrison,W.J., J.M.Horridge and K.R.Pearson (2000) 'Decomposing Simulation Results with Respect to Exogenous Shocks', *Computational Economics* Vol 15 pp 227-249. (A preliminary version was Impact Working paper No IP-73, May 1999 pp.1-21)

Harrison, W.J., Horridge, M., Pearson, K, Wittwer. G. (2002) 'A Practical Method for Explicitly Modelling Quotas and Other Complementarities', 5th Conference on Global Economics, Taipei, June 2002 (An electronic version available on the CoPS website is Impact Working paper No IP-78, June 2002)

GEMPACK Software K.R.Pearson, W.J.Harrison, and many others (1986-2002)

GEMPACK is a suite of general purpose economic modelling software developed as part of the Impact Project.

GEMPACK calculates accurate solutions of an economic model, starting from an algebraic representation of the equations of the model. The ARC grant was given to extend these programs to cover levels equations in addition to the original form of solving linearized equations.

The most recent Release of GEMPACK software is Release 8.0 (October 2002). There have been various different Releases of GEMPACK. Since 1992, there have been Releases 5.0, 5.1, 5.2, 6.0 and 7.0. Each Release has been accompanied by a complete set of GEMPACK documents describing in detail how to use the software.

GEMPACK Documents for Release 8.0 (2002)

GPD-1, *An Introduction to GEMPACK,* Sixth edition, October 2002 pp 207.

GPD-2, *TABLO Reference,* Fourth edition October 2002 pp 191

GPD-3, *Simulation Reference: GEMSIM, TABLO-generated Programs and SAGEM*, Second edition, October 2003 pp 262

GPD-4, *Useful GEMPACK Programs,* Second edition, October 2003 pp138.

GPD-6, *Installing and Using the Source-Code Version of GEMPACK on Windows PCs with Lahey Fortran*, 11th edition, October 2003 pp39

GPD-7, *Installing and Using the Executable-Image Version of GEMPACK on Windows PCs,* 8th edition, October 2002 pp33.

GPD-8, *Getting Started with GEMPACK: Hands-on Examples,* Third edition, October 2002. pp 110

Early Publications

L.Bass and W.J.Greenhalgh. 'Rates of Fast Reactions betweens Ions in Solution' Trans. Faraday Society 62, 1966, p715

C.M.Gerrard and W.J.Harrison 'A Theoretical Comparison of the Effects of Dual Tandem and Dual Wheel Assemblies on Pavements'(1970) Proc. 5th Conference A.R.R.B. Vol 5 Part 4,pp112-137.

C.M.Gerrard and W.J.Harrison 'The Effect of Inclined Planar Fabric Features on the Behaviour of a Loaded Rock Mass'(1970) Proc. 2nd Int Conference on Rock Mechanics, Belgrade, Vol 1, pp2-20.

C.M.Gerrard and W.J.Harrison 'A Comparative Study of the Effects of Inclination and Progressive Mining on Stope Behaviour'(1971) Proc. 1st A.N.Z. Conference on Geomechanics Melbourne Vol 1, pp80-87.

C.M.Gerrard and W.J.Harrison 'Elastic Theory applied to Reinforced Earth' (1972) J.Soil Mech Fdns Div, Proc ASCE Vol 98, SM12 pp1325-1345.

C.M.Gerrard,D.B.McInnes and W.J.Harrison. 'Base course selection - a comparison of two layer theory and Texas Triaxial test data'(1972) J.Aust Rd Res Vol 4, No 9 pp26-40.

N.L.Harrison and W.J.Harrison. 'The Stresses in an Adhesive Layer' (1972) J.Adhesion Vol 3 pp195-212.

Computer programs

W.J.Harrison,L.J.Wardle and C.M.Gerrard
'Computer programs for circle and strip loads on layered anisotropic media' (1972) CSIRO, Division of Applied Geomechanics. - used in designing road pavements in Australia and overseas.

N.L.Harrison, W.J.Harrison and R.J.Harrison
'*Autograd* - a program for design of concrete mixes' (1989) CSR-Humes.
- still used in CSR Humes and ReadyMix in most Australian states