CURRICULUM VITAE

NAME: Henry Y. Wan, Jr.

DATE OF BIRTH: December 16, 1931

PLACE OF BIRTH: Hankow, China

CITIZENSHIP: Republic of China

U.S. Permanent Resident

MARITAL STATUS: Married

ADDRESS:

Home: 304 Salem Drive

Ithaca, New York, U.S.A., 14850

TEL: 607-257-5158

Office: 470 Uris Hall

Cornell University

Ithaca, New York, U.S.A., 14853

TEL: 607-255-6211

AFFILIATIONS:

Professor, Cornell University, Ithaca, NY 1970 - present Associate Professor, University of California, Davis, CA. 1965-1970 Assistant Professor, University of Washington, Seattle, Washington, 1964-1965 Lecturer, University of New South Wales, Kensington, N.S.W. Australia, 1963-1964 Associate Professor, National Taiwan University, Taipei, Republic of China, 1961-1963

EDUCATION:

Ph.D. in Economics, M.I.T. 1961

M.A. in Economics, Bucknell University, 1958

B.A. in Business Administration, National Taiwan University, Taipei, Republic of China, 1952

OTHER EXPERIENCES:

Goh Keng Swee Professor of Economics, National University of Singapore, Spring 1999. Member, Advisory Committee, Institute of Economics Research, Academia Sinica, Nankong, Republic of China

Visiting Professor, Sino-American Economics Training Center at Shanghai Visiting Scholar, Board of Governors, The Federal Reserve System, U.S.A. Visiting Professor, National Taiwan University, Taipei, Republic of China President, Chinese Economic Association in North America, 1993.

PUBLICATIONS

I. Articles

Trading under Strategic Self -Constraint in Kamihigashi, T. and L. Zhao (eds). <u>International Trade and Economic Dynamics – in Memory of Koji Shimomura</u>, Springer, forthcoming.

Fragmented Trade and the Hub-Spokes Game - Strategic Trade under the WTO in Marjit, S. and E. Yu (eds.) <u>Contemporary and Emerging Issues in Trade Theory and Policy</u> (with An-Chi Tung), Emerald, forthcoming.

Trade Liberalization as a Game of Decision under Uncertainty, in Long, N. V., M. Tawada and B. Tran-Nam (eds.) <u>Frontiers in Economics and Globalization</u>, <u>Emerald</u>, forthcoming.

Co-evolution of the Electronics Industry: Policy Interactions across the Pacific (with An-Chi Tung) <u>Pacific Economic Review</u>, 2007

Industrial Policy in a Globalized Age – Lessons from East Asian Experience (with An-Chi Tung), <u>Singapore Economic Review</u>, 2006.

Taiwan's Development Experience: Stability with Growth, 1950-2002, in Ash, Robert and Megan Greene (eds.) <u>Taiwan in the 21st Century – Aspects and Limitations of a Development Model</u> (joint with Erik Thorbecke), London: Routlege, 2007.

On the Existence of Equivalence Tariff Vectors B When Status Quo Matters (with Murray Kemp), Singapore Economic Review, 2006.

Growing Challenges B A Ricardo-Vanek Model (with Jakrapong Uchupalanun), <u>Keio Economic Studies</u>, 2005.

Fragmented Trade and Manufacturing Services B Examples for a Non-Convex General Equilibrium, <u>International Review of Economics and Finance</u>, 2005.

Fragmentation, Engel's Law and Learning (with Ai-Ting Goh), <u>Review of International Economics</u>, 2005.

How Size Matters to Future Chinese Growth: Some Trade Theoretic Considerations, in Yum Kwan and Eden Yu, (eds.), <u>Critical Issues in China's Growth and Development</u> Ashgate 2005.

Towards a Unified Theory of the Growth Process, <u>WIDER Angle</u>, (with Erik Thorbecke), No. 1/2004.

Differential Games with Semi-uncertain Dynamics, <u>International Game Theory Review</u>, (with Simone Clemhout), 2004.

Reform Unleashed Korean Growth, German Economic Review, 2003.

Why Trade Matters to Development: A Learning Model, in Alan Woodland eds., Economic Theory and International Trade: Essays in Honor of Murray C. Kemp, Edward Elgar, 2002.

Industrial Targeting: Lessons from Past Errors and Successes of Hong Kong and Taiwan, (with Erik Thorbecke and An-Chi Tung), World Economy, 2002.

Function versus Form in the Fragmented Industrial Structure: Three Examples from Asia - Pacific Experiences, in Leonard K. Cheng and Henryk Kierzkowski, <u>Global Production and Trade in East Asia</u>, Kluwer, 2001.

Reflections on Income and Growth Determination in a Globalized Economy, in Conference Proceeding on Economic Development in Memory of Professor Mo-Huan Hsing, edited by Tzong-shian Yu et al. (Nankang, Taiwan, R.O.C.: The Institute of Economics, Academia Sinica), October 2001.

Contagion or Inductance? Crisis 1997 Reconsidered (with Wong Wing-Keung), <u>Japanese Economic Review</u>, 2001.

Specialization Pattern and Multi-staged Growth: The Korea-Taiwan Comparison (with Toshiyahu Kato) Review of Development Economics, Vol. 5, 2001.

Taiwan's Role on the World Market, in Peter Chow ed., <u>Taiwan in the Global Economy:</u> <u>From an Agrarian Economy to an Exporter of High-Tech Products</u>, (Westport, CT: Praeger Publishers).

SMEs in the Globalized Developing Economies: Some Asia-Pacific Examples, in Charles Harvie and Boon-Chye Lee, eds., <u>Globalization and SMEs in East Asia</u>, Edward Elgar, 2002.

Total Factor Productivity and the Catching-up Process (with Yeun Yeun Lim in Michele Boldrin, Ping Wang and Been-Lon Chen (eds.) <u>Long-Run Growth and Economic Development: From Theory to Practice</u>, Edward Elgar, 2004.

The Singapore Economy: Prospects for the 21st Century, <u>The Singapore Economic Review</u>, vol. 43, 1998..

Overview: The Lessons from Taiwan: Relevance, Limitations and Transferability, jointly with Erik Thorbecke, in Thorbecke, Erik and Henry Wan (eds.), <u>Taiwan's Development Experience: Lessons on Roles of Government and Market</u>, Kluwer Academic Publishers, 1999.

Some Further Thoughts on Taiwan's Development Prior to the Asian Financial Crisis and Concluding Remarks, jointly with Erik Thorbecke, in Thorbecke, Erik and Henry Wan (eds.), <u>Taiwan's Development Experience: Lessons on Roles of Government and Market</u>, Kluwer Academic Publishers, 1999.

Epilogue: How did Taiwan Withstand the Asian Financial Crisis?, jointly with Erik Thorbecke, in Thorbecke, Erik and Henry Wan (eds.), <u>Taiwan's Development Experience:</u> <u>Lessons on Roles of Government and Market</u>, Kluwer Academic Publishers, 1999.

Emulative Development through Trade Expansions: East Asian Evidence, jointly with P. H. Van, in J. Piggott and A. Woodland (eds.), <u>International Trade Policy and the Pacific Rim</u>, Macmillan Press, 1999.

The Hong Kong Economy Beyond 1997, American Asian Review, Vol. XVI, 1998.

Murray C. Kemp, a Profile, with N. V. Long, <u>Review of International Economics</u>, vol. 6, 1998.

Hong Kong: The Fragile Economy of Middlemen, jointly with J. Weisman, <u>Review of International Economics</u>, vol. 7, 1999.

Interpreting East Asian Growth, jointly with P. H. Van, in Jensen, Bjarne S. and Karyiu Wong (eds.), <u>Dynamics, Growth and International Trade</u>, Michigan University Press, 1997.

A Note on Compensation Schemes, paper in <u>Japanese Economic Review</u>, vol. 48, 1997.

Six Challenges Facing the Chinese Economies, in Linda F.Y. Ng eds., <u>Challenges and Opportunities for the Three Chinese Economies</u>, Chinese University of Hong Kong Press, 1996.

A Note on Knowledge Capital and the Needham Paradox, <u>Academic Economic Paper</u>, v. 23, 1995.

On Lumpsum Compensation (with Murray C. Kemp), in Murray C. Kemp ed. <u>The Gains from Trade and the Gains from Aid</u>, Routledge, 1995, and Melvin, J., J. Moore and R.

Riezman (eds.), Trade Theory and Econometrics: Essays in Honor of John Chipman Routlege, 1999.

Five Policy-Oriented Exercises in a Monetary Economy: On Professor Tsiang's Challenge to Economic Theory, with G. Jiang, in T.S. Yu and J.S. Lee (eds.) <u>S.C. Tsiang: His Contribution to Economic Theory</u>, Taipei: Chung-Hua Institution for Economic Research, 1995.

*Endogenous Growth as a Dynamic Game (with Simone Clemhout) in G.J. Olsder, New Trends in Dynamic Games and Applications, (Annals of the International Society of Dynamic Games), 1995, reprinted in K. Shimomura ed. International Trade and Economic Growth, Kobe University, forthcoming.

The Hong Kong - Guangdong Nexus (with Man-lui Lau), in the <u>Proceedings of International Conference on Financing Development in Guangdong</u>, 12-14, December 1994, City Polytechnic of Hong Kong, Hong Kong.

The Market Transition in Taiwan; Any Relevance for the PRC?, in Thomas Lyons and Victor Nee eds., <u>The Economic Transformation of South China</u>: <u>Reform and Development</u> in the Post-Mao Era, Cornell East Asia Program, Ithaca, NY, 1994.

Revisiting the Mitra-Wan Tree Farm, <u>International Economic Review</u>, 1994.

Differential Games - Economic Applications (with S. Clemhout), in R.J. Aumann and S. Hart eds. Handbook of Game Theory, North Holland, 1994.

On the Mechanism of Catching Up (with Man-lui Lau), in <u>European Economic Review</u>, 1993.

The Non-Uniqueness of Markovian Strategy Equilibrium: The Case of Continuous Time Models for the Non-renewable Resources (with S. Clemhout), in T. Basar et al eds., Advances in Dynamic Games and Applications (Annals of the International Society of Dynamic Games, vol. 1), 1993.

A Note on Boundary Paths, in Robert Becker, et al. eds., General Equilibrium, Growth and Trade II: <u>The Legacy of Lionel McKenzie</u>, Academic Press, New York, 1993.

Trade Development and Inventions, in Herberg, Horst and Ngo Van Long, eds., <u>Trade Welfare and Economic Policies</u>, Michigan University Press, Ann Arbor, 1993.

Laissez Faire and Industry Targeting, jointly with Man-lui Lau, <u>Journal of International and Comparative Economics</u>, 1993.

On Markets, Planning & Market Reform, Academia Economic Papers, 1992.

The Theory of Growth and Technology Transfer: Experience from the East Asian Economics, (with Man-lui Lau), <u>The Seoul Journal of Economics</u>, 1991.

Environmental Problem as a Common-Property Resource Game, (with S. Clemhout), in Ehtamo, H. and R.P. Hamalainen eds., <u>Dynamic Games in Economic Analysis</u>, Springer-Verlag, New York, 1991.

Comments on Chakravarty's 'Marxist economics and contemporary development economics', <u>Cambridge Journal of Economics</u>, 1990.

Wage-Setting Institutions and Economic Growth, (with Gary Fields), <u>World Development</u>, 1989.

On Games of Cake Eating, jointly with S. Clemhout, in F. van der Ploeg and Aart de Zeeuw eds., <u>Dynamic Policy Games in Economics</u>, North Holland, 1989.

Optimal Evolution of Tree-Age Distribution for a Tree Farm, in Carlos Costillo-Chavez et. al. (eds.) <u>Mathematical Approaches to Ecological Problems and Environment</u>. Springer-Verlag, Berlin 1989.

Nipponized Confucian Ethos or Incentive-Compatible Institutional Design: Notes on Morishima, 'Why has Japan Succeeded?', <u>International Economic Journal</u>, 1988.

A General Dynamic Model of Bargaining - The Perfect Information Case, jointly with S. Clemhout, in H.A. Eiselt, ed. <u>Advances in Optimization and Control</u>, Springer-Verlag, New York, 1988.

Differential Games, jointly with S. Clemhout, in J. Eatwell ed., <u>The New Palgrave</u>, Stockton Press, New York, 1987.

*The Comparison of Second-Best Equilibria: The Case of Customs Unions, jointly with M.C. Kemp, <u>Zeitschrift fur Nationalokonomie</u>, 1987, reprinted in M.C. Kemp ed., <u>The Gains from Trade and the Gains from Aid</u>, London, Routledge, 1995, and reprinted in J. Bhagwati, P. Krishna and A. Panagariya (eds.), <u>Trading Blocs</u>, <u>Alternative Approaches to Analyzing Preferential Trade Agreements</u>, M.I.T. Press, Cambridge MA 1999.

Professor Arrow and the Economics of Discrimination in George Feiwel, ed., <u>Arrow and the Ascent of Modern Economic Theory</u>, MacMillan, London 1987.

Some Theoretic Results on the Economics of Forestry, jointly with T. Mitra, <u>Journal of Economic Theory</u>, 1986.

Common-Property Exploitations under Risks of Resource Extinctions, jointly with S. Clemhout, in Tamar Basar ed. <u>Dynamic Games and Applications in Economics</u>, Springer-Verlag, New York, 1986.

Gains from Trade With and Without Lump-Sum Compensation? jointly with M.C. Kemp, <u>Journal of International Economics</u>, 1986.

Cartelization Conserves Endangered Species? jointly with S. Clemhout, in Gustav Feichtinger ed., Optimal Control Theory and Economic Analysis 2, North-Holland, 1985.

On the Faustmann Solution to the Forest Management Problem jointly with T. Mitra, Review of Economic Studies, 1985.

The New Classical Economics - A Game Theoretic Critique in George Feiwel, ed., <u>Issues in Macro-Economics</u>, MacMillan, 1985.

Dynamic Common-Property Resources and Environmental Problems, jointly with S. Clemhout, invited paper, festschrift issue of the <u>Journal of Optimization</u>, <u>Theory and Applications</u>, in honor of G. Leitmann, 1985.

*Involuntary Unemployment as a Principal-Agent Equilibrium, jointly with J. Foster, <u>American Economic Review</u>, 1984, reprinted in G. Akerlof and J. Yellen eds., <u>Efficiency</u> <u>Wage Models of Labor Market</u>, Cambridge University Press, New York, 1986.

Equilibrium Evolution of a Multi-good-Multi-Sector Economy, jointly with I. Zilcha, in Basar, T., ed., <u>Dynamic Modelling and Control of National Economies</u>, Pergamon Press, New York, 1984.

Samuelson and Trade Theory, in G.R. Feiwel, ed., <u>Samuelson and Neoclassical Economics</u>, Kluwer Nijhoff, Boston, 1982.

Performance Improvement of Uncertain Macroeconomic Systems, in P.T. Liu ed., <u>Dynamic Optimization in Mathematical Economics</u>, Plenum Press, N.Y., 1980.

Differential Games and Interactive Decision Processes, jointly with S. Clemhout, invited paper, festschrift issue of <u>Journal of Optimization Theory and Applications</u> in honor of R. Isaacs, 1979.

Causally Indeterminate Models via Multi-Valued Differential Equations, <u>Annals of the New York Academy of Sciences</u>, 1979.

Comment of Professor S. Smale's Paper: Bifurcation Theory and Economic Equilibria, Annals of the New York Academy of Sciences, 1979.

The "Stationarity" of Shadow Prices of Factors in Project Evaluation, with and without Distortions, jointly with Jagdish N. Bhagwati, American Economic Review, 1979.

Trade Under Temporary Equilibrium, jointly with M. Majumdar, Journal of International

Economics, 1979.

Manpower, Export-led Growth and Industrialization: The Taiwan experience, <u>Occasional Papers/Reprint Series in Contemporary Asian Studies</u>, School of Law, University of Maryland, 1978.

Three Paradoxes in the Presence of Trade Distortion, jointly with J. Bhagwati and T.N. Srinivasan, <u>Economic Journal</u>, 1978.

A Stabilization Policy for an Economy with some Unknown Characteristics, jointly with G. Leitmann, Journal of Franklin Institute, 1978.

Macro-Economic Stabilization Policy for an Uncertain Dynamic Economy, jointly with G. Leitmann, appearing in New Trends in Dynamic Systems Theory and Economics, Springer-Verlag, New York, 1978.

Technical Changes Relative to Factor Shares in Indian Agriculture: An Empirical Analysis: Comment, <u>American Journal of Agricultural Economics</u>, 1977.

*A Generalized Wicksellian Capital Model -- An Application to Forestry, Economic Papers, Economic Institute, <u>Academia Sinica</u>, 1965, collected as Ch. 8 in V.K. Smith, ed., <u>Economics of Natural and Environmental Resources</u>, Gordon and Breach, New York, 1977.

The Characterization of Optimal Saving Programs in Models with Quadratic Objective Functions and Linear Constraints, jointly with F. Spitzer, <u>Journal of Mathematical</u> <u>Economics</u>, 1976.

Equilibrium Patterns for Bargaining Under Strike: A Differential Game Model, (jointly with G. Leitmann) in Y.C. Ho and S.K. Mitter (eds.), <u>Directions in Large-Scale Systems</u>, (New York: Plenum Press, 1976).

*A Class of Trilinear Differential Games, jointly with S. Clemhout, <u>Journal of Optimization Theory and Application</u>, 1974, reprinted as Ch. 15 in G. Leitmann, ed., Multi-Criteria Decision Making and Differential Games, Plenum Press, New York, 1976.

Relatively Simple Generalizations of the Stolper-Samuelson and Samuelson-Rybczynski Theorems, jointly with M.C. Kemp, <u>Three Topics in the Theory of International Trade</u>, North Holland, Amsterdam, 1976.

*An Elementary Proposition Concerning the Formation of Customs Unions, jointly with M.C. Kemp, <u>Journal of International Economics</u>, 1975, reprinted as Ch. 19 in J. Bhagwati ed. <u>International Trade: Selected readings</u>, M.I.T. Press, Cambridge, MA, 1981, reprinted in J. Bhagwati, P. Krishna and A. Panagariya (eds.), <u>Trading Blocs</u>, <u>Alternative</u>
<u>Approaches to Analyzing Preferential Trade Agreements</u>, M.I.T. Press, Cambridge MA

1999, reprinted in C. Kowalczyk ed., <u>Economic Integration and International Trade</u>, Edward Elgar, Northampton, MA. 2000, reprinted in <u>Economic Analysis of Regional Trading Arrangements</u>, Edward Elgar, 2003.

A Differential Game Model of Bargaining Under Strike, jointly with S. Clemhout and G. Leitmann, <u>Journal of Economic Theory</u>, 1975.

Hystereses of Long-Run Equilibrium from Realistic Adjustment Costs, jointly with M.C. Kemp in G. Horwich and P.A. Samuelson, eds., <u>Trade, Stability and Macro-Economics</u>, Academic Press, New York, 1973.

A Differential Game of Oligopoly, jointly with S. Clemhout and G. Leitmann, <u>Journal of Cybernetics</u>, 1973.

The Gains from Free Trade, jointly with M.C. Kemp, <u>International Economic Review</u>, 1972.

A Note on Trading Gains and Externalities, Journal of International Economics, 1972.

A Simultaneous Variational Model for International Capital Movements, in J. Bhagwati, et. al., eds., <u>Trade, Balance of Payments and Growth</u>, North Holland, Amsterdam, 1972.

A Differential Game of Duopoly, jointly with S. Clemhout and G. Leitmann, Econometrica, 1971.

Optimal Saving Programs Under Intertemporally Dependent Preferences, <u>International Economic Review</u>, 1970.

Learning-by-Doing and Infant Industry Protection, jointly with S. Clemhout, <u>Review of</u> Economic Studies, 1970.

Intertemporal Optimization with Systematically Shifting Cost and Revenue Functions, <u>International Economic Review</u>, 1966.

Maximum Bonus -- An Alternative Measure for Trading Gains, <u>Review of Economic Studies</u>, 1965.

An Elementary Proof of the Existence and Uniqueness of Competitive Equilibrium in Graham's Model of World Trade, <u>Econometrica</u>, 1965.

(* indicates item reprinted in volumes of selected readings).

II. Book Review

Lectures on Economic Growth, by Robert E. Lucas, Jr., Cambridge, MA: Harvard

University Press, 2003, On the Journal of Economic Literature, vol. 42, 2004.

Asia-Pacific Economies, A Survey, by I. Islam and A. Chowdhury, London: Routlege, 1997, On the Journal of Asian Studies, vol. 58, 1999.

III. Books

Globalizationand Economic Development in East Asia: Lecture Notes of Henry Wan, Jr. Shimomura, K. (etd), RIEB, Kobe University, 2008

Economic Development in a Globalized Environment: East Asian Evidence, Kluwer Academic Publishers, Norwell, MA, 2004: Springer, 2005 (paperback edition).

<u>Economic Development in a Globalized Environment: East Asian Evidence</u>, Peking University Press, Beijing forthcoming (Chinese translation).

Harnessing Globalization, A Review of East Asian Case Histories, World Scientific Publishing Company, Singapore, forthcoming.

Government and Market: The Relevance of Taiwan's Experience for Development Theory and Policy, jointly edited with E. Thorbecke, Kluwer Academic Publishers, Norwell, MA, 1999.

<u>The Welfare Economics of International Trade</u>, jointly with M.C. Kemp, Harwood Press, N.Y., 1993.

Economic Growth, Harcourt, Brace, Jovanovich, New York, 1971.

<u>Teorias Modernas del Crecimento Economico</u>, vicens universidad, Barcelona, Spain, 1975 (Spanish version of the above).

HONORS:

Louis E Levy Medal (jointly with G. Leitmann), The Frankling Institute, 1981.

COMPLETED PAPERS:

Three Faces of Crisis 1997 - Lessons to Learn, paper presented in the joint session of AEA-Ciena, ASSA Meeting Atlanta 2001.

Example and Open Issues on Endogenous Growth, jointly with Simone Clemhout, paper presented in the 5th Viennese Conference 1995.

Laissez Faire as a Source of Comparative Advantage -- What Price Protectionism?, jointly with Yonchih Lin.