

## **Fyodor I. Kushnirsky**

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### **Education**

Lviv Polytechnic Institute, Lviv, Ukraine, B.A. (equivalent)/Economics, 1960

Kyiv State University, Kyiv, Ukraine, M.S. (equivalent)/Mathematics, 1967

Plekhanov Institute of the National Economy, Moscow, Russia, Ph.D. (equivalent)/Economics, 1968  
Dissertation: "Mathematical Models for National Economic Planning"

### **Employment**

Research Institute of Planning and Norms, Kiev, Ukraine, Head of Section, 1965-78

Temple University, Department of Economics  
Adjunct Associate Professor, 1980-82  
Assistant Professor, 1982-86  
Associate Professor, 1986-90  
Professor, 1990 - present

### **Teaching Experience**

**Undergraduate Courses:** Macro/Microeconomic Principles, Intermediate Macroeconomic Analysis, Intermediate Microeconomic Analysis, Economics of Development and Growth, Comparative Economic Systems, Introduction to Econometrics, International Monetary Economics.

**Graduate Courses:** Economic Analysis for MBA, Economic Decision Making in the Firm, Theory of Economic Development, Comparative Economic Systems, Mathematics for Economists, Econometrics I, Econometrics II

### **Areas of Interest**

Reforming Economies, Economic Development, Economic Growth, Applied Econometrics

### **Consulting**

Served as a consultant for the U.S. government and private corporations and participated in projects of technical assistance to the former Soviet Union countries

## **Publications**

### ***Publications in the USSR***

#### **Books and Monographs (in Russian)**

*Organization of National Economic Planning with Mathematical Models and Computers*, Kyiv: Gosplan, 1969 (co-authored)

*Monitoring Research Projects with Network Models and Computers*, Kyiv: Gosplan, 1969 (co-authored)

*An Econometric Model for the Ukraine's National Economy*, Kyiv: Gosplan, 1972 (co-authored)

*Modeling of Indicators of Economic Development of a Republic*, Moscow: Ekonomika, 1974

#### **Papers (in Russian, Ukrainian, Czech, and Bulgarian)**

"Parametric Transport Problem," *Papers of the Institute of Mathematics of the Ukrainian Academy of Sciences*, Kyiv, 1965 (co-authored)

"Networking Models for the Preparation and Control of National Economic Plans," *Ekonomika Radianskoi Ukrainy*, No. 12, 1966

"Methods for the Aggregation of Network Models," *Mekhanizatsiia i Avtomatizatsiia Proizvodstva*, No. 1, 1967

"Computation Algorithms for Network Models with Random Constraints," *Voprosy Upravleniia i Planirovaniia Proizvodstva*, No. 1, 1967

"An Econometric Model for the Ukrainian Economy," *Papers of International Symposium in Novosibirsk*, 1970 (co-authored)

"A Dynamic Model for the Forecasting of the Republican Economy," *Planovoe Khoziaistvo*, No. 11, 1970 (co-authored)

"Construction and Application of Econometric Models," *Papers of International Symposium in Sofia*, 1971

"Methodological Aspects of Planning Computation with a Hierarchical System of Models," *Planovoe Stopanstvo*, Sofia, No. 10, 1971 (co-authored)

"Construction of Econometric Models for Two Levels of Control," *Papers of International Conference in Bratislava*, 1972 (co-authored)

"Statistical Analysis of Saving and Consumption," *Voprosy Upravleniia Proizvodstva*, No. 1, 1972

"Regression with Non-Negative Coefficients," *Kibernetika*, No. 1, 1973 (co-authored)

"Econometric Modeling for National Economic Plans," *Planovoe Khoziaistvo*, No. 3, 1973 (co-authored)

"Complement of an Input-Output Model for a Closed Model of Production Computation," *Ekonomika i Matematicheskie Metody*, No. 5, 1976

**Also published in the USSR more than 20 other scholarly papers.**

### ***Publication in Russia***

"Liberalization of Prices and Supply-Side Economics," *Ekonomika i Matematicheskie Metody*, No. 5-6, 1992

### ***Publications in the U.S.***

### **Books and Monographs**

*Soviet Economic Planning: 1965-1980*, Boulder, CO: Westview Press, 1982

*Price Inflation in the Soviet Machine-Building and Metalworking Sector*, Falls Church, VA: Delphic Monograph Series, 1983

*Major Indicators for the Asiatic and European RSFSR*, Falls Church, VA: Delphic Monograph Series, 1983

*Estimation of Real Growth and Productivity in the Soviet Machine-Building and Metalworking Sector*, Falls Church, VA: Delphic Monograph Series, 1986

*Growth and Inflation in the Soviet Economy*, Boulder, CO: Westview Press, 1989

### **Papers and Chapters in Books**

"A Joint Input-Output and Econometric Approach to Endogenous Calculations of Final Demands and Outputs," *Journal of Policy Modeling*, No. 4 (3), 1982

"Inflation Soviet Style," *Problems of Communism*, January-February, 1984

"The Limits of Soviet Economic Planning," *Problems of Communism*, July-August, 1984

"Selected Contributions of Kyiv Scholars to Mathematical Economics," in I. S. Koropecyj, ed., *Selected Contributions of Ukrainian Scholars to Economics*, Cambridge, MA: Harvard University Press, 1984

- "Efficiency and Change in the Soviet Economy," *SAIS Review*, Winter-Spring, 1985
- "Methodological Aspects in Building Soviet Price Indices," *Soviet Studies*, Vol. 37, No. 4, 1985
- "Regional Growth in the Soviet Economy: A Model and Analysis," *Journal of Regional Science*, Vol. 26, No. 1, 1986
- "The Role of Industrial Modernization in Soviet Economic Planning," *Papers of the Joint Committee, Congress of the United States*, Washington, DC, November, 1987
- "Soviet Economic Reform: An Analysis and a Model," *Comparative Economic Studies*, Vol. 29, No. 4, 1987
- "Heavy Industry," *Encyclopedia of Ukraine*, Vol. 2, Toronto: University of Toronto Press, 1987
- "Investment," *Encyclopedia of Ukraine*, Vol. 2, Toronto: University of Toronto Press, 1987
- "Soviet Economic Reform: An Analysis and a Model," in S. J. Linz and W. Moscoff, eds., *Reorganization and Reform in the Soviet Economy*, Armonk, NY: Sharpe, 1988
- "Productive and Unproductive Labor: Smith, Marx, and the Soviets," in *Perspectives of the History of Economic Thought*, New York, NY: Edward Edgar, 1988 (with William J. Stull)
- "The Soviet Economy: Where Will the 1980's Reform Take It," *Communist Economies*, Vol. 1, No. 2, 1989
- "The New Role of Normatives in Soviet Economic Planning," *Soviet Studies*, Vol. 41, No. 4, 1989
- "Conversion, Civilian Production and Goods Quality in the Soviet Economy," *Comparative Economic Studies*, Vol. 33, No. 1, 1991
- "Economic Reform without Direction," in A. Rieber and A. Rubinstein, eds., *Perestroika at Crossroads*, Armonk, NY: Sharpe, 1991
- "National Income of Ukraine: Estimation and Analysis," in I. S. Koropecy, ed., *The Ukrainian Economy: Achievements, Problems, Challenges*, Cambridge, MA: Harvard University Press, 1992
- "Lessons from Estimating Military Production in the Former Soviet Union," *Europe-Asia Studies*, Vol. 45, No. 3, 1993
- "Ukraine's Industrial Enterprise: Surviving Hard Times," *Comparative Economic Studies*, Vol. 36, No. 4, 1994
- "Microeconomic Foundations of Inflation in Ukraine," *Ukrainian Economic Review*, Vol. 1, No. 1-

2, 1995

"Free Economic Zones in Ukraine: The Case of Odessa," *Ukrainian Economic Review*, Vol. 2, No. 3, 1996

"Post-Soviet Attempts to Establish Free Economic Zones," *Post-Soviet Geography and Economics*, Vol. 3, No. 3, 1997

"Changing Methodology of Measuring Growth and Inflation: The Case of Ukraine," *Comparative Economic Studies*, Vol. 40, No. 4, 1998.

"A Modification of the Production Function for Transition Economies Reflecting the Role of Institutional Factors," *Comparative Economic Studies*, Vol. 43, No. 1, 2001.

"Econometric Modeling at Mixed Frequencies" (with Lawrence R. Klein), *Journal of Economic and Social Measurement*, Vol. 30, No. 4, 2005, pp. 251-277.

"The Polish Miracle. Lessons for the Emerging Markets," *Comparative Economic Studies* (2007) Vol. 49 (paper-book review).

"Econometric Forecasting at Mixed Frequencies: Application to Mexico's Economy. Part I. Mexican High Frequency and Low Frequency Econometric Models" (with Lawrence Klein and Alejandro Delgado Mercado), *Journal of Economic and Social Measurement*, Vol. 33, No. 2-3, 2008, pp. 179-217.

"Econometric Forecasting at Mixed Frequencies: Application to Mexico's Economy. Part II. Combined Use of High Frequency and Low Frequency Models" (with Lawrence Klein and Alejandro Delgado Mercado), *Journal of Economic and Social Measurement*, Vol. 33, No. 4, 2008, pp. 271-308.

"Using Data and Models at Mixed Frequencies in Computation and Forecasting," in *The Making of National Economic Forecasts*, Lawrence Klein (ed.), Edward Elgar, October 2009, pp. 294-318.

### **Selected Presentations**

"Organization of Planning and Decision Making in Ukraine's Economy," Harvard University Ukrainian Center, December 1979

"Equilibrium in a Planned Economy: An Econometric Approach," Planning Workshop at the University of Pennsylvania, February 1980

"A Multiregional Econometric Model of the Soviet Economy," Eastern Economic Association, Philadelphia, April 1980

"Contribution of Kyiv Economists to Mathematical Economics," Second Conference on Ukrainian Economics, Harvard University, September 1981

"Economic Growth of the Soviet Republics: An Econometric Study," American Association for the Advancement of Slavic Studies, Washington, DC, October 1982

"Methodology of Soviet Price Setting," Planning Workshop at the University of Pennsylvania, March 1983

"The Soviet Economy in the 1980s," Conference at the University of Scranton, December 1983

"New Trends in Soviet Economic Planning," American Association in for the Advancement of Slavic Studies, Haverford, PA, March 1984

"Economic Behavior and Econometric Estimation: Cooperation and Counteraction," International Society of Statistical Science in Economics," Princeton, NJ, June 1984

"Economic Planning in Ukraine: The Decision Making Process," Conference on Problems in Nationhood, Urbana-Champaign, IL, June 1984

"The Soviet Economy: Has It Stopped Growing?" The Georgetown University - RASP/CSIS Speakers Series, Washington, DC, November 1984

"Inherent Drawbacks in a Planned Economy," Washington Roundtable, School of Advanced International Studies, Washington, DC, November 1984

"The Soviet Economy in a Search for Efficiency," American Economic Association, Dallas, December, 1984

"Productivity and Incentives in the Soviet Economy," Faculty Development Seminar at Indiana University, November 1985

"Coordination of Regional and Industry Planning," Regional Science Association, Philadelphia, November 1985

"Gorbachev's Industrial Modernization Program: Feasibility, Benefits, and Costs," U.S. Government Sponsored Conference, Manassas, VA, May 1986

"National Income Accounts and Soviet Economic Growth," Planning Workshop at the University of Pennsylvania, February 1987

"Productive and Unproductive Labor: Classical Economists and Soviet National Income Accounting," History of Economics Society, Harvard University, June 1987

"New Challenges to Soviet Official Statistics: A Methodological Survey," U.S. Government

Sponsored Conference, Washington, DC, December 1987

"Soviet Monetary Aggregates and Economic Reform," International Symposium on Monetary Reform, Gerzensee, Switzerland, December 1989

"Economic Reform: Search for Direction," Interdisciplinary Study Center, University of Pennsylvania, January 1990

"Current Trends in the Ukrainian Economy," Symposium at Rutgers University, March 1990

"Reform and Economic Sovereignty of the Republics," International Conference on Ethnicity and the Soviet Future, Ottawa, Canada, May 1990

"National Income of Ukraine: Estimation and Analysis," International Conference on Ukrainian Economics, Harvard University, September 1990

"Military Conversion and Civilian Production in the Soviet Economy," U.S.-Soviet Joint Symposium, Moscow, November 1990

"Center-Agents Economic Relations," Conference on Regional Economic Issues, Wharton Econometrics Forecasting Association, Washington, DC, May 1991

"Monetary Policy and Financial Markets in a Reforming Economy," First International Congress on the Ukrainian Economy, Kyiv, Ukraine, May 1992

"Microeconomic Foundations of Inflation in Ukraine," Conference on Economic Reform in Ukraine, U.S. State Department, Washington, DC, September 1993

"A Theoretical Model of Transition," Second International Congress on the Ukrainian Economy, Odessa, Ukraine, May 1994

"Free Economic Zones in Ukraine: The Case of Odessa," Second Conference on Economic Reform in Ukraine, U.S. State Department, Washington, DC, September 1995

"Routes of Supply of Caspian Oil and Energy Problems of Ukraine," U.S. State Department Conference on Caspian Oil, Washington, DC, May 1997

"Measurement of Inflation in Transition: The Methodology of Consumer Price Indices," U.S. State Department Seminar on Ukrainian Statistical Methodology, Washington, DC, June 1997

"The Index-Number Problem in the Transition Economy: Survey," Invited-Scholar Seminar, Changchei University, Taiwan, May, 1999

"A Modification of the Production Function for the Transition Economy," Economic Education Research Consortium Seminar, Kiev, Ukraine, May 2001.

“Joint Solutions of Short and Medium-Term Econometric Models,” Institute of Economic Forecasting of the National Academy of Ukraine, Kiev, Ukraine, June 2004.

“Combining Models of Different Frequencies,” United Nations Department of Economic and Social Affairs LINK Conference, Mexico City, Mexico, May 2005 (with Lawrence R. Klein).

“Econometric Models for Ukraine,” World Bank, Washington, DC, July 2005 (with Lawrence Klein)

“A Vector Autoregressive (VAR) Model and Short-Term Forecast for the Georgian Economy,” Global Insight–Georgia National Bank Meeting, Washington, DC, November 2007.

“Application of Mixed-Frequency Macroeconometric Models in Medium-Term Forecasting,” Temple University Economics Scholarly Seminar, February 2010.