

## **Speaker Biography**

### **JOHN STOVER**

John Stover is Vice President at FUTURES and Director of the FUTURES' Connecticut office. He is corporately responsible for Computer Applications and Modeling and directs FUTURES' efforts in HIV/AIDS. John Stover has 25 years of experience in assessing population and health issues in developing countries and in providing technical assistance in policy analysis and awareness raising through applied analysis, presentations and computer modeling. Mr. Stover has worked on a variety of policy and service projects including POLICY, RAPID (Resources for the Awareness of Population Impacts on Development), OPTIONS (for Population Policy), SOMARC (Social Marketing for Change), the EVALUATION (of Family Planning Impact) Project, and PASCA (Central America HIV/AIDS Prevention) Project. He has worked in diverse geographic regions including sub-Saharan Africa, North Africa and the Middle East, Asia and Latin America.

Mr. Stover leads POLICY Project activities on HIV/AIDS. He has published and presented numerous articles on population and family planning, AIDS modeling, intervention analysis and demographic impact. He has conducted research on the policy process and is co-author of "The Art of Policy Formulation: Experiences from Africa in Developing National HIV/AIDS Policies". He has developed a number of evaluation tools including the Policy Environment Score and the AIDS Program Effort Index.

Mr. Stover has substantial experience in developing and applying population-related models to developing country problems. In the late 1970s, Mr. Stover and Mr. Philander Claxton were the chief architects of the RAPID concept - an approach that combined microcomputer technology, interactive models and a focus on reaching political audiences. Mr. Stover has developed a number of important population and health policy tools including the classic RAPID model; DemProj, which is widely recognized as one of the best demographic projection models available for use on microcomputers; the FamPlan model used to assess future program and funding requirements to attain policy objectives; the AIDS Impact Model (AIM) used to build political consensus in support of effective AIDS interventions; EASEVAL, a computer program providing easy interactive analysis of DHS data sets, the PMTCT model to assess the cost-effectiveness of different strategies to prevent mother-to-child transmission of HIV and the Goals model for costing and resource allocation for HIV/AIDS programs.

Mr. Stover has remarkable experience in presenting population, health and development information to high-level policy makers. On different occasions he has presented to such world leaders as Presidents Sadak and Mubarak of Egypt, Zia of Pakistan and Museveni of Uganda, King Hussein of Jordan and Prime Minister Bhutto of Pakistan. He has also provided assistance to programs in numerous countries, where policy presentation teams have used computer-based presentations successfully to reach thousands of individuals from national and local governments, NGOs and other community leaders.

Manager, Analytic Services, The Futures Group, January 1979 to December 1985

Responsible for developing quantitative forecasting techniques and applying quantitative methods to policy analysis. Developed the RAPID awareness presentation model for presenting to high-level developing country leaders the effects of population growth on social and economic development. Developed the RAPID version of the Family Planning Target-Setting Model. Presented RAPID analyses to high-level officials in a number of countries including Jordan, Egypt and Pakistan.

Research Associate, The Futures Group, January 1973 to December 1978

Responsible for developing and applying quantitative forecasting techniques for private-sector clients. Worked on the development or refinement of Trend Impact Analysis, Cross Impact Analysis, Probabilistic System Dynamics and Decision Modeling.

Peace Corps Volunteer, Uruguay, July 1969 to November 1972

Organized artisan cooperatives in Northern Uruguay. Cooperated with a small private trade school in the teaching of agricultural and artisan skills.

#### LANGUAGES

Fluent Spanish. Conversational French. Lived in Uruguay for three years.

#### PUBLICATIONS

##### Journal Articles, Book Chapters and Special Reports

“Can we reverse the HIV/AIDS epidemic with an expanded response?” with Neff Walker, Geoff P. Garnett, Joshua A. Salomon, Karen A. Stanecki, Peter D. Ghys, Nicholas C. Grassly, Roy M. Anderson, Bernhard Schwartlander. *The Lancet* Vol. 360, July 6, 2002, pps. 73-77.

The Epidemiological Impact of an HIV/AIDS Vaccine in Developing Countries. John Stover, Geoff P. Garnett, Steve Seitz, Steven Forsythe. Policy Research Working Paper 2811. Washington, DC: The World Bank, March 2002.

“Modeling the Demographic Impact of AIDS” (editorial). *J Health Popul Nutr* 2002:20:00-00.

“The Family Planning Program Effort Index: 1999 Cycle” with John Ross. *International Family Planning Perspectives*, 2001, 27(3):119-129.

“Resource Needs for HIV/AIDS” with B. Schwartlander, N. Walker, L. Bollinger, J.P. Gutierrez, W. McGreevey, M. Opuni, S. Forsythe, L. Kumaranayake, C. Watts and S. Bertozzi. *Science* Vol 292, 20 June 2001. pps. 2434-2436.

“Influence of Mathematical Modeling of HIV and AIDS on Policies and Programs in the Developing World”, *Sexually Transmitted Diseases* Vol. 27 No. 10, November 2000, p. 572-578.

“Empirically-Based Conversion Factors for Calculating Couple-Years of Protection” with Jane Bertrand and James D. Shelton, *EVALUATION Review* Vol 24. No. 1, February 2000, p. 3-46.

The Art of Policy Formulation: Experiences from Africa in Developing National HIV/AIDS Policies. Washington, DC: The POLICY Project/The Futures Group International. August 1999.

"Projecting the Impact of AIDS on Mortality", with Peter Way, *AIDS* 1998 12 (suppl 1):S29-S39.

"Revising the Proximate Determinants of Fertility: What Have We Learned in the Past Twenty Years" *Studies in Family Planning*, Fall 1998.

"Simulating the Control of a Heterosexual HIV Epidemic in a Severely Affected East African City" with Bernstein, Robert S., David C. Sokal, Steven T. Seitz, Bertran Auvert, John Stover and Warren Naamara, 1998. *Interfaces* 28:3 May-June, pp. 101-126.

"The demographic and economic impact of AIDS in Africa" with Alan Whiteside, AIDS, 1997;11 Suppl B:S55-61.

"Impact of interventions on reducing the spread of HIV in Africa: computer simulation applications" with Peter O. Way, African Journal of Medical Practice, Vol. 2, No. 4 (July-August 1995), pp. 110-120.

"The impact of HIV/AIDS on adult and child mortality in the developing world," Health Transition Review: AIDS Impact and Prevention in the Developing World: Demographic and Social Science Perspectives, Supplement to Volume 4, 1994.

"Using Age-Specific Appropriate Method-Mix Strategy to Achieve Replacement Level Fertility in India: A Model for Policy Analysis," with Dennis W. Chao, Y.P. Gupta, Prem P. Talwar, Demography India, Vol. 23, Nos. 1&2 (1994), pp. 157-166.

"Evaluating Family Planning Program Impact: New Initiatives on a Persisting Question" with A.O. Tsui, A.I. Hermalin, J.T. Bertrand, J. Knowles and K.J. Stewart, Demography India, Vol. 22, No. 2(1993), pp. 133-154.

The impact of HIV/AIDS on population growth in Africa. Washington, D.C., World Bank, Africa Technical Department, Human Resources and Poverty Division, African Population Advisory Committee, May 13, 1993.

"The Impact of AIDS on Knowledge and Attitudes about Condoms for Family Planning in Urban Mexico," with Mario Bravo, International Family Planning Perspectives, Vol. 17, No. 2 (June 1991).

Preparing for the Twenty-First Century: Principles for Family Planning Service Delivery in the Nineties, with Harriet Destler, Dawn Liberi and Janet Smith, Washington, DC: POPTECH, DUAL Incorporated and International Science and Technology Institute, 1990.

"Methodologies for Evaluating the Impact of Contraceptive Social Marketing Programs," with T. Bertrand and R. Porter, Evaluation Review, Vol. 13, No. 4 (August 1989).

The Population Council Target Setting Model, with John Bongaarts (New York: The Population Council, Center for Policy Studies, 1986).

"Global Consequences of Improving Productivity," with T. J. Gordon, Technology Forecasting and Social Change, Vol. 24 (1983).

"Population Projections," in William Mills, Global Models, World Futures and Public Policy (Washington, DC: Office of Technology Assessment, 1982).

World Populations and Fertility Planning Technologies: The Next 20 Years (Washington, D. C.: Office of Technology Assessment, 1982). Mr. Stover was a major contributor to this publication of the Office of Technology Assessment.

"Including Future Events in System Dynamics Models," TIMS Studies in the Management Sciences, Vol. 14 (1980).

"An Application of Venture Analysis: The Integrated Energy Utility," with others, Sloan Management Review, Vol. 21, No. 1 (1979).

"Cross Impact Analysis," in Jib Fowles (ed.), Handbook of Futures Research (Westport, CT: Greenwood Press, 1978).

"Demographic and Economic Impacts of the Implementation of Life Extending Technologies," Proceedings of the 1977 Summer Computer Simulation Conference, Chicago, Illinois, July 1977, also appears in T. J. Gordon, H. Gerjuoy and M. Anderson (ed.), Life Extending Technologies: A Technology Assessment (New York: Pergamon Press, 1980).

“Use of Decision Modeling for Substitution Analysis: Application to Acceptance of New Electricity Generating Technologies,” *Technology Forecasting and Social Change*, Vol. 12 (1978).

“Using Perceptions and Data About the Future to Improve the Simulation of Complex Systems,” with T. J. Gordon, *Technology Forecasting and Social Change*, Vol. 9 (1976).

“Some Suggested Improvements to the Delphi Cross Impact Technique,” *Futures*, Vol. 5, No. 3 (June 1973).

#### Conference Papers

“Estimating and Projecting the Size and Impact of the HIV/AIDS Epidemic in Generalized Epidemics: The UNAIDS Reference Group Approach” with Karen A. Stanekki. Presented at the Annual Conference of the Population Association of America, Atlanta, May 9-11, 2002.

“Measuring the level of effort in the national and international response to HIV/AIDS” with Bernhard Schwartlander and Joel Rehmstrom. Presented at the XIII International AIDS Conference, Durban, South Africa, July 2000.

“A Decision Model of the Prevention of Mother-to-Child Transmission of HIV” with Lori Bollinger. Presented at the XI International Conference on AIDS and STDs in Africa, Lusaka, Zambia, December 1999.

“The Expected Child Survival Benefits of Programs to Reduce Maternal-to-Child Transmission of HIV” presented at the Annual Conference of the Population Association of America, New York City, March 1999.

“Revising the Proximate Determinants of Fertility Framework: Lessons Learned from the Past Twenty Years” presented at the Annual Conference of the Population Association of America, Washington, DC, March 27-29, 1997.

“Measuring the Policy Environment for AIDS Prevention Programs: The AIDS Policy Environment Score”, with P Murgueytio, L Moreno, K Meyer-Ramirez, presented at the XI International AIDS Conference, Vancouver, July 7-12, 1996.

“Building Support for HIV/AIDS Prevention Activities in Kenya: The AIM Approach”, with TM Okeya, GM Baltazar and AG Johnston, presented at the XI International AIDS Conference, Vancouver, July 7-12, 1996.

“Reducing the Costs of Effective AIDS Prevention Programs Through Appropriate Targeting”, presented at the XI International AIDS Conference, Vancouver, July 7-12, 1996.

“The Future Demographic Impact of AIDS: What Do We Know?”, presented at The Role of Government in AIDS Prevention and Care, Brussels, June 16-19, 1996.

“The Impact of Interventions on Reducing the Spread of HIV in Africa: Results from Computer Simulations,” with Peter O. Way, paper presented at the Annual Meeting of the Population Association of America, San Francisco, California, April 1994.

“The Contribution of Contraceptive Social Marketing Programs to the Sustainability of Family Planning Services,” paper presented at the Annual Meeting of the Population Association of America, Cincinnati, Ohio, April 1993.

“The Approach of the RAPID Project to Building Political Support for Population Programs,” with Thomas Goliber, presented at the 1992 Annual Meeting of the Population Association of America, Denver, April 1992.

“Evaluating family planning program impact: New initiatives on a persisting question,” with A.O.Tsui, A.I.Hermalin, J.T. Bertrand and J. Knowles, presented at the 1992 Annual Meeting of the Population Association of America, Denver, April, 1992.

“The Impact of HIV/AIDS on Population Growth in Central Africa: The Cases of Uganda and Rwanda,” with John May, presented at the 1992 Annual Meeting of the Population Association of America, Denver, April 1992.

“Simulation Modeling of the AIDS Epidemic: A Tool for Influencing Policymakers,” with others, presented at the Fifth International Conference on AIDS in Africa, Kinshasa, Zaire, October 1990.

“AIDSTECH Projection Model: HIV Infection and AIDS Cases in an African City, 1980-2000,” with D. Sokal, presented at the Fifth International Conference on AIDS in Africa, Kinshasa, Zaire, October 1990.

“The Impact of AIDS Communications Programs on Family Planning in the Developing World,” with Susan Smith, presented at the 1990 Conference of the National Family Planning and Reproductive Health Association.

“The Impact of AIDS on the Use of Condoms for Family Planning in Developing Countries,” presented at the 1989 APHA Conference, Chicago, Illinois, October 1989

International Cooperation in Population Programs in the 1990s: The U.S. Role, presented at the National Conference on Cooperation for International Development, East Lansing, Michigan, May 15 17, 1988.

Social, Economic and Political Trends in the Developing World: The Context for U.S. Development Cooperation in the 1990s, presented at the Conference on U.S. Development Assistance in the 1990s, East Lansing, Michigan, June 1 2, 1987.

The Effects of Urban Expansion on Arable Land and Food Production in Egypt, with Norman Graham and Charles Killpack, presented at the March 1986 Conference on the Population Association of America.

The Effects of Population Growth on Social and Economic Development in Jordan, presented at the Conference on Population Policy and Development in the Arab World, Amman, Jordan, March 1985, and published in the Conference Proceedings.

“An Economic Analysis of Thailand’s National Family Planning Program: Evaluation of the Past and Planning for the Future,” with others. Presented by D. Chao at the 1982 meeting of the Population Association of America, San Diego.

“Residential Space Heating: A Decision Model of the Dynamics of Fuel Penetration,” presented at the 1976 Summer Computer Simulation Conference, Washington, DC, July 12, 1976.

“The Use of Probabilistic System Dynamics in the Analysis of National Development Policies: A Study of Economic Growth and Income Distribution in Uruguay,” presented at the 1975 Summer Computer Simulation Conference, San Francisco, California, July 1975.

“Energy Policy Modeling with Probabilistic System Dynamics: A Japanese Case Study,” presented at the 1974 Summer Computer Simulation Conference, Houston, Texas, July 10, 1974. Publications at The Futures Group:

“Empirically Based Conversion Factors for Calculating Couple-Years of Protection”, with Jane Bertrand, et al., February 1997.

“AIDS in Ethiopia: Background, Projections, Impact and Interventions”, December 1996.

“AIDS in Kenya: Background, Projections, Impact and Interventions”, July 1994.

“The costs of contraceptive social marketing programs implemented through the SOMARC project”, with A. Wagman, SOMARC Occasional Paper No. 16. August 1992.

Target-Cost: A Model for Projecting the Family Planning Service Requirements and Costs to Achieve Demographic Goals, with others, December 1991.

AIM: AIDS Impact Model, May 1991.

“Contraceptive social marketing programs and quality of service: a comparison of pharmacy and clinic-based programs in Egypt”, SOMARC Occasional Papers No. 11, January 1991.

DemProj: A Demographic Projection Model for Development Planning, July 1990.

“Impact of the 1988-89 national AIDS communications campaign on AIDS-related attitudes and behaviors in Jamaica”, with S. Smith, 1990.

“Are Contraceptive Social Marketing Programs Reaching Their Target Markets?”, with L. Bollinger and B. Aker, November 1989.

“A Baseline Survey on AIDS and Sexually Transmitted Diseases in Jamaica”, with S. Smith and D. Anderson, January 1989.

“AIDS and Sexually Transmitted Diseases in Jamaica”, with S. Smith, January 1989.

“The Impact of AIDS on the Use of Condoms for Family Planning in Mexico”, November 1988.

“The Impact of CSM on Contraceptive Prevalence: An Examination of Currently Available Evidence”, with others, August 1987.

Hina: A Microcomputer Model Designed to Illustrate the Consequences of Alternative Assumptions about Mortality and Morbidity, September 1985.

The Health Consequences of High Fertility and Rapid Population Growth in Jordan, April 1985.

Pakistan: The Effects of Population Factors on Social and Economic Development, with N. Graham, January 1983.

Brasil: O Impacto dos Factores Populacionais no Desenvolvimento Socio Economico (Brazil: The Impact of Population Factors on Socioeconomic Development) with M. Queralt, April 1982.

Sao Paulo: O Impacto dos Factores Populacionais no Desenvolvimento Socio Economico (Sao Paulo: The Impact of Population Factors on Socioeconomic Development) with M. Queralt, September 1981.

“The Impact of Thailand’s National Family Planning Program on Fertility Decline and the Implications for Short-Run and Long-Run Government Expenditures”, with others, July 1981.

Jordan: The Effects of Population on Economic and Social Development, June 1981.

GLOBALSCAN: Projections of Demographic, Economic and Social Indicators for the Countries and Regions of the World, 1975 2000, May 1981.

World Futures and Public Policy The Population Sector, February 1981.

“Demographic, Economic and Social Projections for the Period of the 1981 1985 Jordan Development Plan and Beyond”, August 1980.

Kenya: The Effects of Population Factors on Development, with J. Bye, July 1980.

Population and Development in Costa Rica, November 1979.

Paraguay: The Interrelation of Population and Development, August 1978.

“A Case Study Application of Venture Analysis: The Integrated Energy Utility”, with others, July 1978.

Cameroon: The Interrelationship of Population Factors and Development, with P. Claxton, June 1978.

“Incorporating Uncertainty in Energy Supply Models”, with W. Hayward, September 1977.

Volume 5: Demography, Economics, and Aging of a six volume report titled A Technology Assessment of Life Extending Technologies, with others, December 1976.

“New Technology Decision Logic for Generation Expansion by Electric Utilities”, with E. Fein, June 1976.

“Future Industrial Applications of Biological Processes”, with R. Richmond, February 1976.

“Probabilistic Energy and Load Forecasting”, with W. Renfro, December 1975.

A Study of Alternative Future Scenarios for the National Aviation System, with others, September 1975.

An Assessment of the Impacts of Geothermal Development Programs, August 1975.

A Technology Assessment of Geothermal Energy Resource Development, with others, prepared for the National Science Foundation (Washington, DC: U.S. Government Printing Office, April 1975).

The Impacts of New Technologies on Energy and Raw Materials in Japan, Volumes 1 and 2, with C. J. Donahue and T. J. Gordon, November 1974.

“New Techniques in Substitution Analysis: Multibody Substitutions, Data Collection, and Factor Selection”, with others, September 1974.

Probabilistic System Dynamics: A Model of the Japanese Economy, with others, February 1974.

Hydrogen: A Fuel for the Electric Utilities, with E. Fein, May 1973.