

Summary report of the

**Sixth
Summer
Seminar
in
Population**



EAST-WEST POPULATION INSTITUTE
EAST-WEST CENTER
HONOLULU HAWAII

Summary report of the

**Sixth
Summer
Seminar
in
Population**

16 June - 19 July 1975

EAST-WEST POPULATION INSTITUTE • EAST-WEST CENTER • HONOLULU HAWAII

December 1975

Contents

Preface v

Participants 1

Faculty and staff 8

Activities 10

 East-West Population Institute 10

 Korean Institute for Family Planning 11

Lecture courses 13

Workshops 18

Reading materials 26

Preface

THE SIXTH SUMMER SEMINAR IN POPULATION was held at the East-West Center in Honolulu, Hawaii, and at the Korean Institute for Family Planning in Seoul, Republic of Korea, during the five-week period from 16 June to 19 July 1975. Sixty persons from universities, government agencies, and research organizations of 15 countries participated in the Seminar, including three Institute interns and five observers.

Held annually since 1970, the Summer Seminar is designed to increase knowledge of population issues among professionals in Asia, the Pacific region, and the United States. This year's Seminar, which brought together researchers, university faculty, and administrators, focused on the need for increased training and research in the population field. Specifically, it sought to increase participants' knowledge of population issues and of disciplinary and interdisciplinary approaches to research of these issues, and to develop their competence in basic demographic skills needed for population research. A practical goal of the program was to assist participants in developing population research proposals for submission to funding agencies.

The academic portion of the Seminar, held in Honolulu from 16 June to 12 July, included four lecture courses emphasizing knowledge of major population issues and demographic methods, and workshops on the following subjects: urban community studies on demographic topics, economic determinants and consequences of population growth, studies in population movement, analysis of census and survey fertility data, population socialization, operations research in family planning, and emerging research in social demography. Each participant enrolled in two lecture courses and one workshop. The Seminar concluded with a week of field study in Seoul, conducted under the auspices of the Korean Institute for Family Planning, during which participants were able to observe a number of ongoing program activities in the population field.

This report summarizes the academic portion of the Seminar held in Honolulu. Lectures prepared for the Korean field program have been published by the Korean Institute for Family Planning under the title *Summer Seminar in Population, 1975*.

Dr. Robert Retherford, Assistant Director for Professional Development, coordinated the Seminar with assistance from Mrs. Susan Palmore, Program Officer, and Ms. Amy Jenks, Seminar Assistant. Staff of the Institute who worked on the Seminar are listed on pages 8-9 of this report. In addition, the Institute is indebted to Dr. Samuel Preston, Director of the Center for Studies in Demography and Ecology at the University of

Washington, in Seattle, for his contribution to the academic portion of the Seminar. For the success of the field program the Institute is grateful to Director J.K. Hong and the staff of the Korean Institute for Family Planning. Finally, thanks are due to the secretarial staff of the East-West Population Institute for their able stenographic assistance.

Participants

<i>Name and address</i>	<i>Affiliation</i>	<i>Educational background (if known)</i>
BANGLADESH		
Abdul Kader Faquir Census Commission 107 Kakrail Road Dacca-2	Deputy Census Commissioner Census Commission	M.Sc., University of Rajshahi (Mathematics)
Nazrul Islam Department of Geography University of Dacca Dacca	Associate Professor Department of Geography University of Dacca	M.A., University of Dacca (Geography)
Abdul Monaem 199 Park Dr. Boston, Massachusetts 02215 U.S.A.	Statistician and Research Officer Bangladesh Family Planning Board	M.A., University of Dacca (Economics); M.S. candidate, Harvard University (Public Health)
FIJI		
Naibuka B. Navunisaravi Bureau of Statistics Government Building Suva	Statistician Bureau of Statistics	2nd Division Certificate, International Institute for Population Studies, Bombay (Fertility and Mortality); B.A. candidate, University of the South Pacific (Economics)
HONG KONG		
*Hing L. Kwan School of Public Health University of Hawaii Honolulu, Hawaii 96822 U.S.A.		M.P.H. candidate, University of Hawaii (Biostatistics); B.S. (Biology) and B.A. (Chem- istry), University of Hawaii
INDIA		
Sudhin K. Mukhopadhyay Department of Economics University of Kalyani Kalyani, West Bengal	Lecturer in Economics Department of Economics University of Kalyani	Ph.D., University of Minnesota (Economics)

* Observer.

<i>Name and address</i>	<i>Affiliation</i>	<i>Educational background (if known)</i>
G. Rama Rao International Institute for Population Studies Deonar, Bombay 400088	Lecturer International Institute for Population Studies	M.Sc., Osmania University (Statistics)
INDONESIA		
Djamasri Adenan Population Studies Gadjah Mada University Lembaga Kependudukan UGM Bulaksumur H/5, Yogyakarta	Staff Member Institute of Population Studies Gadjah Mada University	M.A., University of Wisconsin (Economic Development)
Sri Harijati Hatmadji Faculty of Economics University of Indonesia 4 Salemba Raya, Jakarta	Teaching Assistant Faculty of Economics University of Indonesia	Drs., University of Indonesia (Economics)
Sujana Jatiputra Faculty of Public Health University of Indonesia JL. Proklamasi 16, Jakarta	Head, Research and Development Unit, Faculty of Public Health University of Indonesia	M.P.H., Johns Hopkins Uni- versity (Biostatistics)
Kodiran 36, Agus Salun St., Yogyakarta	Staff Member Institute of Population Studies Gadjah Mada University	Drs./M.A., University of Indonesia (Anthropology)
JAPAN		
Tatsuya Itoh Institute of Population Problems Kasumigaseki, Tokyo	Technical Officer Institute of Population Problems	Certificate, Tokyo University (Geography/Computer Programming)
REPUBLIC OF KOREA		
Chan-Wha Chun Ewha Womans University 11-1 Daehyun-dong Sudaemun-ku, Seoul	Deputy Dean of Academic Administration Ewha Womans University	M.A., West Texas State Uni- versity (Educational Psy- chology)
In Kim Department of Geography School of Social Sciences Seoul National University, Seoul	Lecturer Department of Geography Seoul National University	Ph.D., University of North Carolina (Geography)
Nan-Hee Kim 115 Nokbun-dong Sudaemun-ku, Seoul	Researcher Korean Institute for Family Planning	B.A., Chungang University (Economics)
Ock-Kyung Kim Center for Population and Family Planning Yonsei University, Seoul	Researcher Center for Population and Family Planning Yonsei University	M.P.H., Yonsei University (Public Health)

<i>Name and address</i>	<i>Affiliation</i>	<i>Educational background (if known)</i>
Suk Hyun Kim Institute of East and West Studies Yonsei University 134 Shunchon-dong Sudaemun-ku, Seoul	Economist Institute of East and West Studies Yonsei University	M.A., Yonsei University (Economics)
Nam-Kyoon Oh 115 Nokbun-dong Sudaemun-ku, Seoul	Researcher Korean Institute for Family Planning	B.A., Ehwa Womans Univer- sity (Education)
MALAYSIA		
Hairi Abdullah Department of Sociology Kebangsaan National University of Malaysia, Kuala Lumpur	Lecturer Department of Sociology Kebangsaan National University of Malaysia	M.A., University of Malaya (History and Economics)
Chow Pheng Lai Department of Geography University of Malaya Kuala Lumpur	Lecturer Department of Geography University of Malaya	B.A., University of Malaya (Geography); M.A. candidate, University of Malaya (Regional Planning and De- velopment)
Lee-Ying Soon Faculty of Economics and Administration University of Malaya Kuala Lumpur 22-11	Assistant Lecturer Faculty of Economics and Administration University of Malaya	M.Ec., University of Malaya (Economics)
Nai Peng Tey National Family Planning Board P.O. Box 416, Kuala Lumpur	Statistician/Economist National Family Planning Board	B.Econ., University of Malaya (Statistics)
NEW ZEALAND		
A. Crosbie Walsh School of Social and Economic Development University of the South Pacific Box 1168, Suva, Fiji	Reader in Geography and Population Studies University of the South Pacific	M.A., Victoria University of Wellington (Geography and History)
PAKISTAN		
S. Sajjad Hussain Census Organization 16-Almarkaz Civic Centre, Islamabad	Assistant Census Commissioner Census Organization	M.A., University of the Punjab (Statistics)
S.M. Ishaque Statistics Division 70-Muslimabad, Karachi	Director Statistics Division	M.A., Karachi University (Economics); M.A., Univer- sity of the Punjab (Statistics)
Mehtab S. Karim PIDE, University Campus POB 1091, Islamabad	Research Demographer Pakistan Institute of Development Economics	M.A., University of Chicago (Sociology/Demography)

<i>Name and address</i>	<i>Affiliation</i>	<i>Educational background (if known)</i>
Makhdoom A. Shah Department of Public Health Johns Hopkins University 615 N. Wolfe St. Baltimore, Maryland 21205 U.S.A.	Researcher Pakistan Institute of Development Economics	Sc.D., Johns Hopkins University (Health Education)
Nasra M. Shah Pakistan Institute of Development Economics University of Islamabad P.O. Box 1091, Islamabad	Research Demographer Pakistan Institute of Development Economics	Sc.D., Johns Hopkins University (Demography)
PHILIPPINES		
Macrina K. Abenoja Office for Population Studies University of San Carlos Cebu City	Research Associate Office for Population Studies	M.A., University of the Philippines (Demography)
Diwata A. Baluyut USAID, Ramon Magsaysay Center 1680 Roxas Blvd., Manila	Population Consultant USAID	M.S.W., University of California at Berkeley (Social Work)
Maria Cynthia Rose C. Banzon Department of Sociology University of the Philippines Quezon City	Instructor I Department of Sociology University of the Philippines	B.A., University of the Philippines (Sociology)
Nellie V. Mangubat Population Institute U.P., P.O. Box 479, Manila	Head, Data Processing Population Institute	B.S., University of the Philippines (Food Technology)
Eulalio G. Maturan Department of Social Sciences Silliman University Dumaguete City 6501	Chairman, Department of Social Sciences Silliman University	M.S., University of Wisconsin (Rural Sociology)
Clarita E. Tan RIMCU, Xavier University Cagayan de Oro City 8401	Research Assistant RIMCU Xavier University	M.A., Xavier University (Sociology)
SINGAPORE		
Pedro Flores IDRC Tanglin P.O. Box 101 Singapore 10	Project Coordinator Southeast Asia Population Research Awards Program International Development Research Centre	
SRI LANKA		
Celine M.A. Aluvihare "Sevum Seva" Waragona Estate Kelaniya	Director "Sevum Seva"	Certificate, Management Development and Productivity Centre (Market Research)

<i>Name and address</i>	<i>Affiliation</i>	<i>Educational background (if known)</i>
Sarath L.B. Amunugama Ministry of Public Administration Local Government and Home Affairs Independence Square, Colombo 7	Director, Combined Services Ministry of Public Administration	M.A., University of Saskatchewan (Social Science)
Imaiyavalli Kumanan Department of Geography University of Sri Lanka Colombo Campus P.O. Box 1490, Colombo-3	Assistant Lecturer Department of Geography University of Sri Lanka	M.A., University of Windsor (Geography)
Lakshmi K. Ratnayake Department of Geography University of Sri Lanka Vidyalankara Campus Kelaniya	Head, Department of Geography University of Sri Lanka Vidyalankara Campus	Ph.D., University of Edin- burgh (Geography)
TAIWAN		
Shiao-chun Chang Department of Sociology College of Law National Taiwan University 21 Hsu Chow Rd., Taipei	Instructor Department of Sociology National Taiwan University	B.A., National Taiwan Uni- versity (Sociology)
Fang-Hoei Chen Department of Geography National Taiwan Normal University 161 Hoping E. Road, Section 1 Taipei 106	Associate Professor Department of Geography National Taiwan Normal University	M.A., Kyoto University (Geography)
Ta-Chou Huang Department of Agricultural Extension National Taiwan University	Associate Professor Department of Agricultural Extension National Taiwan University	Ph.D., Cornell University (Development Sociology)
Paul K.C. Liu Institute of Economics Academia Sinica Nankang, Taipei	Research Fellow and Professor Institute of Economics	Ph.D., Michigan State Uni- versity (Economics)
Ts'ui-jung T.J. Liu Institute of American Culture Academia Sinica Nankang, Taipei	Associate Research Fellow Institute of American Culture	Ph.D., Harvard University (History and East Asian Languages)
Liang-tsun Gary Lu Joint Commission on Rural Reconstruction Nan-hai Road, Taipei	Demographer Joint Commission on Rural Reconstruction	B.A., University of Nanking (Rural Sociology)

<i>Name and address</i>	<i>Affiliation</i>	<i>Educational background (if known)</i>
THAILAND		
Napaporn Burapathana Institute of Population Studies Chulalongkorn University Bangkok	Lecturer and Research Associate Institute of Population Studies	M.Sc., London School of Economics and Political Science (Demography); M.A., Chulalongkorn University (Demography)
Malinee Chaumpluk EWC Box 1170 1777 East-West Road Honolulu, Hawaii 96822 U.S.A.	Researcher Institute of Population Studies Bangkok	M.A., University of Hawaii (Sociology)
Vimala Chiamsakol Department of Preventive and Social Medicine Faculty of Medicine Siriraj Hospital, Bangkok 7	Instructor Department of Preventive and Social Medicine Siriraj Hospital	M.P.H., University of North Carolina (Population Studies); M.A., Chulalongkorn Univer- sity (Demography)
†Neramit Dhanasakdi National Statistical Office 962 Krung Kasem Road, Bangkok	Technician Population Survey Division National Statistical Office	B.S., Hillsdale College (Mathematics)
Saichai Kumkanarp Department of Sociology Thammasat University, Bangkok	Instructor Department of Sociology Thammasat University	M.A., Chulalongkorn Univer- sity (Sociology)
†Jain Niroottinanont National Statistical Office 962 Krung Kasem Road, Bangkok	Statistician Population Survey Division National Statistical Office	B.A., Thammasat University (Economics)
Rachaniwan Thavornjit Faculty of Economics Thammasat University, Bangkok	Lecturer Faculty of Economics Thammasat University	M.A., Thammasat University (Economics)
*Laddawan Srisukonth School of Public Health University of Hawaii Honolulu, Hawaii 96822 U.S.A.		M.P.H. candidate, University of Hawaii (Public Health); B.Sc., Mahidol University (Medical Technology)
TONGA		
*Busby Salesi Kautoke EWC Box 1342 1777 East-West Road Honolulu, Hawaii 96822 U.S.A.	Public Health Officer Department of Health Nukualofa	M.P.H. candidate, University of Hawaii (Public Health); B.A., University of Hawaii (Zoology)

* Observer.

† EWPI research intern.

<i>Name and address</i>	<i>Affiliation</i>	<i>Educational background (if known)</i>
UNITED STATES		
Stuart J. Greenfield BEB 400 University of Texas Austin, Texas	Instructor/Research Associate Department of Economics University of Texas	Ph.D., University of Texas (Economics)
*Elliot Kushell Department of Sociology University of Hawaii Honolulu, Hawaii 96822		Ph.D. candidate, University of Hawaii (Sociology)
Ruth Ann Sando Department of Anthropology University of Hawaii Honolulu, Hawaii 96822	Teaching Assistant Department of Anthropology University of Hawaii	M.A., University of Hawaii (Anthropology)
Robert F. Schroeder Department of Anthropology University of Washington Seattle, Washington		Ph.D. candidate, University of Washington (Anthropology)
*Miriam B. Sutton Institute of Behavioral Sciences 250 Ward Ave., Suite 226 Honolulu, Hawaii 96814	Research Associate Institute of Behavioral Sciences	M.S.W., University of Hawaii (Social Work)
†Richard Ulack Department of Geography University of Kentucky Lexington, Kentucky	Assistant Professor Department of Geography University of Kentucky	Ph.D., Pennsylvania State University (Geography)

* Observer.

† EWPI research intern.

Faculty and staff

<i>Name and position</i>	<i>Role in Seminar</i>	<i>Highest university degree</i>
Dennis N.W. Chao Research Associate, EWPI; Assistant Professor of Economics, University of Hawaii	Workshop Coordinator, Economic Determinants and Consequences	Ph.D., University of California at Santa Barbara (Economics)
Murray Chapman Research Associate, EWPI; Associate Professor of Geography, University of Hawaii	Workshop Coordinator, Studies in Population Movement	Ph.D., University of Washing- ton (Geography)
Lee-Jay Cho Director, EWPI; Professor of Sociology, University of Hawaii	Workshop Coordinator, Analysis of Census and Survey Fertility Data	Ph.D., University of Chicago (Sociology)
Joan Choi Secretary for Professional Development, EWPI	Support staff	
Griffith Feeney Assistant Director for Graduate Study, EWPI; Graduate Affiliate Faculty in Sociology, University of Hawaii	Lecturer, Techniques of Estimation from Limited Data	Ph.D., University of California at Berkeley (Demography)
Robert W. Gardner Research Associate, EWPI; Assistant Professor of Public Health, University of Hawaii	Lecturer, Introduction to Population Issues	Ph.D., University of California at Berkeley (Demography)
Robert A. Hackenberg Professor of Anthropology and Director, Institute of Behavioral Science, University of Colorado; Senior Fellow, EWPI	Workshop Coordinator, Urban Community Studies on Demographic Topics	Ph.D., Cornell University (Anthropology)
Alice D. Harris Resource Materials Specialist, EWPI	Support staff	M.S., Drexel Institute of Tech- nology (Library Science); M.A., University of Hawaii (Geography)

<i>Name and position</i>	<i>Role in Seminar</i>	<i>Highest university degree</i>
Amy Jenks Seminar Assistant, EWPI	Seminar Assistant	B.A., University of Hawaii (Education)
Peter Kunstadter Research Associate, EWPI; Graduate Affiliate Faculty in Anthropology, University of Hawaii	Workshop Coordinator, Urban Community Studies on Demographic Topics	Ph.D., University of Michigan (Anthropology)
Johannes Overbeek Research Associate, EWPI; Assistant Professor of Economics, University of Hawaii	Workshop Coordinator, Economic Determinants and Consequences of Population Growth	Ph.D., University of Geneva (Economics)
James Palmore Assistant Director for Research, EWPI; Professor of Sociology, University of Hawaii	Workshop Coordinator, Population Socialization Research	Ph.D., University of Chicago (Sociology)
Susan M. Palmore Program Officer for Professional Development, EWPI	Assistant Seminar Coordinator	M.A., University of Hawaii (Political Science)
Chai Bin Park Research Associate, EWPI; Professor of Public Health, University of Hawaii	Workshop Coordinator, Operations Research in Family Planning	M.D., Seoul National Univer- sity
Samuel Preston Director, Center for Studies in Demography and Ecology, University of Washington	Lecturer, Advanced Social Demography	Ph.D., University of California at Berkeley (Demography)
Robert D. Retherford Assistant Director for Professional Development, EWPI; Graduate Affiliate Faculty in Sociology, University of Hawaii	Seminar Coordinator; Lecturer, Basic Demographic Methods	Ph.D., University of California at Berkeley (Sociology)
Peter C. Smith Research Associate, EWPI; Graduate Affiliate Faculty in Sociology, University of Hawaii	Workshop Coordinator, Emerging Research in Social Demography	Ph.D., University of Chicago (Sociology)
Irene Tamashiro Resource Materials Assistant, EWPI	Support staff	B.A., California State Univer- sity at Los Angeles (Psychology)
Sandra E. Ward Publications Officer, EWPI	Support staff	B.A., Oberlin College (English)
Nancy E. Williamson Assistant Professor of Sociology, Brown University; Fellow, EWPI	Resource person	Ph.D., Harvard University (Sociology)

Activities

EAST-WEST POPULATION INSTITUTE

Lecture Courses

Advanced Social Demography, *Dr. Samuel Preston*
17–27 June
Monday through Friday, 9:00 a.m.—12:00 m.

Basic Demographic Methods, *Dr. Robert D. Retherford*
17 June–11 July
Tuesday and Thursday, 9:00 a.m.—12:00 m.

Introduction to Population Issues, *Dr. Robert W. Gardner*
17 June–11 July
Monday, Wednesday, and Friday, 9:00 a.m.—12:00 m.

Techniques of Estimation from Limited Data, *Dr. Griffith Feeney*
30 June–11 July
Monday through Friday, 9:00 a.m.—12:00 m.

Workshops

Anthropology: Urban Community Studies on Demographic Topics,
Drs. Peter Kunstadter and Robert Hackenberg
17 June–11 July
Monday through Friday, 2:00–5:00 p.m.

Analysis of Census and Survey Fertility Data, *Dr. Lee-Jay Cho*
17 June–11 July
Tuesday and Thursday during first and third weeks; Monday, Wednesday, and Friday during second and fourth weeks, 2:00–5:00 p.m.

Economic Determinants and Consequences of Population Growth,
Drs. Dennis Chao and Johannes Overbeek
17 June–11 July
Monday through Friday, 2:00–5:00 p.m.

Geography: Studies in Population Movement, *Dr. Murray Chapman*
17 June–11 July
Monday through Friday, 2:00–5:00 p.m.

Population Socialization Research, *Dr. James Palmore*
17 June–11 July
Monday through Friday, 2:00–5:00 p.m.

Public Health: Operations Research in Family Planning, *Dr. Chai Bin Park*
17 June–11 July
Tuesday and Thursday, 1:30–5:00 p.m.

Sociology: Emerging Research in Social Demography, *Dr. Peter Smith*
17 June–11 July
Monday, Wednesday, and Friday, 2:00–5:00 p.m.

Special Events

Welcoming Remarks, *Dr. Everett Kleinjans, Chancellor of the East-West Center, and Dr. Lee-Jay Cho*
16 June, 9:00–9:30 a.m.

East-West Center Orientation, *Mrs. Janet Seifert, Community Services Officer, East-West Center*
16 June, 1:00–2:00 p.m.

Reception for Seminar Participants and Staff
17 June, 4:00–5:30 p.m.

Buffet Dinner at Home of Dr. and Mrs. Robert Retherford
28 June, 5:00–8:00 p.m.

Special Seminar, "A Follow-up Strategy to Maintain Continued Family Planning Adoption,"
Drs. Makhdoom Shah and Nasra Shah, participants from Pakistan
2 July, Kamehameha Room

Hawaiian Luau Sponsored by Friends of the East-West Center and Waikiki Rotary Club
5 July, 6:00–9:00 p.m.

Special Seminar, "Southeast Asian Population Research Awards Program," *Pedro Flores, participant from Singapore*
7 July, Kamehameha Room

KOREAN INSTITUTE FOR FAMILY PLANNING

Lectures and Discussion

Introduction to the Korean Institute for Family Planning Program, *Mr. M.S. Hong, Chief of Documentation and Information Section, Korean Institute for Family Planning*
14 July, 11:20–11:40 a.m.

The National Family Planning Program in Korea, *Dr. Ik Han Che, Director of Bureau of Maternal and Child Health, Ministry of Health and Social Affairs*
14 July, 11:40 a.m.–12:20 p.m.

Population and the Korean Economy, *Dr. K.C. Han, Professor of Business and Economics, Yonsei University*
15 July, 9:00–9:50 a.m.

Korean Values and Family Planning, *Dr. Sung Jin Lee, Director of the Korean Institute for Research in the Behavioral Sciences*
15 July, 10:00–10:50 a.m.

Male Sterilization in Korea, *Dr. H. Y. Lee, Professor of Medicine, Seoul National University*
15 July, 11:30 a.m.–12:20 p.m.

Information, Education, and Communication Activities on Family Planning and Mothers' Club Activity in Korea, *Mr. Joo Hyun Lee, Secretary General of the Planned Parenthood Federation of Korea*
16 July, 9:00–9:50 a.m.

Panel Discussion on the Policy of Family Planning Programs in Asian Countries, *Dr. Lee-Jay Cho, Director of the East-West Population Institute (moderator)*

16 July, 10:20 a.m.—12:00 m.

Laparoscopic Female Sterilization, *Dr. Hyun Mo Kwak, Professor of Medicine, Yonsei University*

16 July, 1:30—2:20 p.m.

Evaluation of the National Family Planning Program in Korea, *Mr. Kap Suk Koh, Chief of Evaluation Division, Korean Institute for Family Planning*

18 July, 9:00—9:40 a.m.

Population and Family Planning Education in Universities, *Dr. E.H. Kwon, Dean of the College of Medicine, Seoul National University*

18 July, 9:50—10:40 a.m.

Final Discussion, *Dr. Lee-Jay Cho*

18 July, 11:00 a.m.—12:00 m.

Special Events

Opening Ceremony:

Opening Address, *Dr. Jong Kwan Hong, Director, Korean Institute for Family Planning*

Congratulatory Address, *Mr. Michael H.B. Adler, Director of USAID/Korea*

Greetings, *Dr. Lee-Jay Cho*

14 July, 10:30—11:00 a.m.

Film Showing: "Today's Korea"

14 July 2:00—3:00 p.m.

Observation of the Population and Family Planning Exhibit Hall

14 July, 3:00—4:00 p.m.

Field Observation, Kwanak Campus of Seoul National University

15 July, 2:00—5:00 p.m.

Visit and Remarks, *Mr. Jae Pil Koh, Minister of Health and Social Affairs, Government of Korea*

16 July

Field Trip, Korea's National Museum

16 July, 2:30—5:30 p.m.

Field Trip, Ah-San Health Center

17 July, 9:00 a.m.—12:00 m.

Discussion of Health Center Program and Activities, *Mr. W.B. Song, Chief, Ah-San County, and Dr. V.H. Park, Director of Ah-San Health Center*

17 July, 10:30 a.m.—12:00 m.

Closing Ceremony

18 July, 12:00 m.—12:40 p.m.

Lecture courses

Advanced Social Demography

Samuel Preston

This course was designed to review results of research in major areas of substantive demographic concern. Some knowledge of demographic and statistical techniques on the part of participants was presumed. The focus was on interrelations between population processes and structure on the one hand, and social structural, economic, and policy variables on the other. The intention was to define areas of needed research and to provide examples of how such research might proceed, and thereby to stimulate participants to work in these areas.

The major topics considered were: demographic equilibrium and equilibrating devices; the disruption of equilibrium brought about by a fall in mortality; responses to disequilibrium, including policy responses; fertility analysis in less developed and more developed societies; social and economic effects of demographic patterns; and causes of the urbanization of the world population. Readings on these topics were distributed in advance, most in the form of journal reprints. The September 1974 issue of *Scientific American* (reissued as a book entitled *The Human Population*) was also distributed to all participants.

Each participant prepared a paper for the course. The assignment for the paper was as follows:

1. Choose a particular country or set of countries and critically review the results of research that has been done on one of the following topics for that country. Try to be sensitive to problems of research design.
 - a. Causes of mortality decline
 - b. Economic or social effects of demographic patterns
 - c. Causes of urbanization
 - d. Determinants of fertility at the individual level (social structural, economic, social psychological). You need not deal with all determinants but may select one or a few, such as educational attainment or religion. Try to identify the biological variables through which these determinants operate.
 - e. Demographic, social, or economic effects of population policies (intended or unintended)
2. In view of your perception of desirable demographic goals for this country, what are the implications of these findings for population policy formulation?

3. What more would you like to know in order to answer (2)? What are fruitful avenues for future research in this area?

Commentaries were prepared on each paper. Those papers that seemed to be of the most general interest were then presented to the class at the final session.

Basic Demographic Methods

Robert D. Retherford

This course on basic methods of demographic analysis focused on the formal demography of closed populations. A prepared lecture was given at each meeting, which related to the topics and readings listed in the course outline below. The readings were taken from Roland Pressat, *Demographic Analysis, Methods, Results, Applications* (Chicago: Aldine Atherton, 1972); Henry S. Shryock, Jacob S. Siegel, and associates, *The Methods and Materials of Demography* (Washington, D.C.: U.S. Government Printing Office, 1973); and James A. Palmore, *Measuring Mortality: A Self-Teaching Guide to Elementary Measures* and *Measuring Fertility and Natural Increase: A Self-Teaching Guide to Elementary Measures*, East-West Population Institute Working Papers 15 and 16. Participants also completed a series of six problem sets.

COURSE OUTLINE

17 June

Introduction
Sources of data
Basic concepts

Reading: Pressat, pp. 1–28.

19 June

Basic demographic measures
Population growth
Components of growth

Reading: Pressat, pp. 29–70.

24, 26 June and 1 July

Mortality
Standardization
Life table
Stationary population

Reading: Palmore, *Measuring Mortality*.

3 July

Fertility

Reading: Palmore, *Measuring Fertility and Natural Increase* (first half).

8 July

Population projections

Reading: Palmore, *Measuring Fertility and Natural Increase* (second half).

10 July

Special topic: Fertility measures from censuses and surveys

Reading: R. Retherford and L.-J. Cho, "Age-Parity-Specific Birth Rates, Birth Expectations, and Birth Probabilities from Census or Survey Data on Own Children," pp. 1–12.

Introduction to Population Issues

Robert W. Gardner

This course was organized around the problem of developing a population policy for a state or a nation. In order to prepare such a policy, a person must know (1) the facts of population characteristics and processes, (2) their determinants, and (3) their consequences. Each of these topics was considered in the prepared lectures, and finally the topic of population policy itself was discussed.

The textbook for the course, *Principles of Demography* by Donald Bogue, served as background and general coverage. Separate readings pertinent to each topic were distributed to the participants.

Each participant was asked to write a ten-page paper on one of the topics listed below. The papers were returned with comments and suggestions. The purpose of this exercise was to involve the participants in the materials of the course and to encourage them to integrate their experiences and ideas with the general approach and framework presented in the lectures.

COURSE OUTLINE

16 June

Introduction

Readings: Kingsley Davis, "The World's Population Crisis," in R.K. Merton and R.A. Nisbet, eds., *Contemporary Social Problems* (3rd ed.), 1971, pp. 363–405; Kingsley Davis, "Population Policy: Will Current Programs Succeed?" *Science* 158, 10 November 1967, pp. 730–739.

18 June

Distribution and characteristics

Readings: Nathan Keyfitz, "The Numbers and Distribution of Mankind," East-West Population Institute Reprint no. 18; Ansley Coale, "How a Population Ages or Grows Younger," in Ronald Freedman, ed., *Population: The Vital Revolution*, 1964, pp. 47–58.

20 June

Population theories

Reading: Warren S. Thompson and David T. Lewis, *Population Problems* (5th ed.), 1965, pp. 14–54.

23 June

Mortality

Reading: Kingsley Davis, "The Amazing Decline of Mortality in Underdeveloped Areas," *Journal of the American Economic Association* 46, May 1956, pp. 305–318.

25 and 27 June

Fertility

Readings: Kingsley Davis and Judith Blake, "Social Structure and Fertility: An Analytic Framework," *Economic Development and Cultural Change* 4, April 1956, pp. 211–235 (reprinted in Charles Nam, ed., *Population and Society*, pp. 196–215); Ansley Coale, "The Decline of Fertility in Europe from the French Revolution to World War II," in S.J. Behrman et al., *Fertility and Family Planning: A World View*, 1969, pp. 3–24; Lee-Jay Cho, Wilson H. Grabill, and Donald J. Bogue, *Differential Current Fertility in the United States*, 1970, pp. 280–302.

SUGGESTED TOPICS FOR PAPERS

1. Evaluate family planning as a population policy.
2. State the theory of the demographic transition. How is it applicable or inapplicable to current population trends in both developing and developed countries? Use your own country as one example.
3. Compare and contrast the goals of population policy in developed countries with those of developing countries. Does your own country have a population policy? If so, what are its goals? If not, do any government policies seem to be affecting population trends anyway?
4. Discuss the similarities and differences between the course of urbanization in developed and developing countries, using your own country as one example.
5. What do theories of fertility tell us about the likely determinants of current and future levels of fertility in the developing countries? Do you agree?
6. Does your country have a population problem? What caused it? What are the effects? What is being done about it?

Participants were also free to write papers on other topics approved by the instructor.

Techniques of Estimation from Limited Data

Griffith Feeney

This course was designed to provide a short, general introduction to so-called limited data techniques in demography. During the past two decades, demographers have developed numerous special techniques for inferring levels of fertility and mortality in the absence of complete birth and death registration systems. These techniques may be classified roughly into two types, those involving extensive data gathering efforts (sample surveys, sample registration systems, "dual system" procedures) in addition to analytical efforts, and those consisting primarily of analytical efforts applied to existing data. This course emphasized the second class of techniques, which may be termed "inferential." A discussion of the first class of techniques appears in the recently published *Population Growth Estimation: A Handbook of Vital Statistics Measurement*, by Eli S. Marks, William Seltzer, and Karol J. Krotki (New York, The Population Council, 1974).

Inferential techniques for estimation from limited data are characterized by considerable interplay between formal demographic relationships, such as the demographic equation and life table algebra, and observed empirical regularities in demographic phenomena. The use of empirical regularities varies from casual, as for example in the observation that a sex ratio at birth of 1.3 is highly suspect, to systematic and refined, as in the use of model life table families. Of particular importance is the use of the mathematical notion of "parameterization" to represent empirical regularities, of which model life table families are but one example.

COURSE OUTLINE

1. Census Survival Methods
 - a. Censuses five years apart
 - b. Censuses ten years apart
 - c. Estimating the birth rate
2. Model Life Table Families
 - a. The Coale-Demeny tables
 - b. The Brass tables
 - c. Application to mortality estimation from census survivorship

3. Stable Population Theory
 - a. Stable populations
 - b. The stable age distribution
 - c. Application to estimation problems
4. Principles of Incomplete Data Techniques
 - a. Models and parameterization
 - b. Formulation of estimation equations
 - c. Solution of estimation equations
5. A Numerical Technique for Two Parameter Problems
 - a. Solution sets
 - b. Simultaneous solutions
 - c. Consistency analysis
6. Stable Population Estimation: A New Approach
 - a. Tabular procedure
 - b. Interpolation technique
 - c. Analysis of results
7. Brass Mortality Estimates
 - a. The Brass multipliers
 - b. Preliminary analysis
 - c. Theory of the Brass technique
8. Mortality Trends from Child Survivorship
 - a. The problem
 - b. The solution
 - c. Numerical procedure
9. The Own-Children Technique
 - a. Reverse-survival procedure
 - b. Matching children to mothers
 - c. Calculation procedure

ASSIGNED READINGS

1. Paul Demeny, "Some Methods of Estimation for Statistically Underdeveloped Areas." In Henry S. Shryock, Jacob S. Siegel, and associates, *The Methods and Materials of Demography*, vol. 2. Second Printing (rev.). Washington, D.C.: U.S. Government Printing Office, 1973.
2. Nathan Keyfitz and Noreen Goldman, "Problems in Applied Mathematical Demography." Research Paper no. 10, Cambridge: Harvard University Population Studies, 1975.
3. Griffith Feeney, "Estimation of Mortality Trends from Child Survivorship Data." Unpublished manuscript, East-West Population Institute, 1975.
4. _____, "The Own-Children Method of Estimating Age-Specific Fertility Rates." Paper prepared for Demographic Analysis and Data Evaluation Workshop, conducted by U.S. Bureau of the Census at the Department of Statistics, Kuala Lumpur, Malaysia, March 1975.
5. Paul Demeny and Frederic C. Shorter, "Estimating Turkish Mortality, Fertility and Age Structure: Application of Some New Techniques." Publication No. 218, Faculty of Economics, University of Istanbul, Istanbul, 1968.

Workshops

Anthropology: Urban Community Studies on Demographic Topics

Peter Kunstadter and Robert Hackenberg

Participants: *Sarath L.B. Amunugama*, Sri Lanka; *Kodiran*, Indonesia; *Eulalio G. Maturan*, Philippines; *Ruth Ann Sando*, United States; *Robert F. Schroeder*, United States

Participants prepared research proposals, as outlined below, and took part in the workshop discussions.

TOPICS DISCUSSED

1. Relationships among anthropology, urban studies, and demography; urbanism and the nature of society
2. The development of urban anthropology
 - a. The "Chicago School" of urban sociology (e.g., Burgess and Park) and the city as a locus of social disorganization
 - b. The "folk-urban continuum" (e.g., Redfield) and rural-urban contracts
 - c. The "Culture of Poverty" (Lewis et al.)
 - d. Social anthropological descriptions and analyses of urban society (Lynd and Lynd, Warner, etc.)
 - e. British social anthropology in cities
3. Case studies: examples of anthropology in urban areas on demographic topics
 - a. Family structure and reproductive outcome in Seattle (Hutchins)
 - b. Family structure, reproductive performance, child growth among urban poor Thai in Chiang Mai (Muecke)
 - c. Development of squatter communities in the Philippines (R. Hackenberg)
 - d. Development of squatter communities in the Philippines (B. Hackenberg)
4. General guidelines for the preparation of research proposals
5. Preparation and criticism of research proposals by participants
 - a. Migration patterns and attitudes to family size in a caste context in the city of Colombo, by Sarath L.B. Amunugama

- b. A study of urbanization patterns of Dumaguete City and their implications for future urban social planning and development, by Eulalio G. Maturan
- c. The value of children in two ethnic groups in urban areas of central Java, by Kodiran
- d. The relationship between symbolic values and internal migration, by Ruth Ann Sando
- e. Urban-rural migrants: The Case of Eastern Washington, by Robert F. Schroeder

ASSIGNED READINGS

First Week

D.J. Dwyer, ed., *The City as a Centre of Change in Asia*. Hong Kong University Press, 1972, pp. 3–55.

Kingsley Davis, "The Urbanization of the Human Population." Chapter 1, pp. 5–20, in Gerald William Breese, ed., *The City in Newly Developing Countries: Readings on Urbanism and Urbanization*. Englewood Cliffs, N.J.: Prentice-Hall, 1969.

Bert F. Hoselitz, "The Role of Cities in the Economic Growth of Underdeveloped Countries." Chapter 20, pp. 232–245, in G.W. Breese, ed., *The City in Newly Developing Countries*, *ibid.*

Rhoads Murphey, "Urbanization in Asia." Chapter 6, pp. 58–75, in G.W. Breese, ed., *The City in Newly Developing Countries*, *ibid.*

Second Week

D.J. Dwyer, ed., *The City as a Centre of Change in Asia*, *op. cit.*, pp. 59–138.

Robert Boyd, "Population, Disease and Demography." Pp. 345–352 in Peter J. Ucko, Ruth Tringham, and G.W. Dimbleby, eds., *Man, Settlement and Urbanism*. London: Gerald Duckworth and Co., Ltd., 1972.

Don Brothwell, "Community Health as a Factor in Urban Cultural Evolution." Pp. 353–361 in Peter J. Ucko, Ruth Tringham, and G.W. Dimbleby, eds., *Man, Settlement and Urbanism*, *ibid.*

Stephen Boyden, *Conceptual Basis of Proposed International Ecological Studies on Large Ecological Areas*. Information Document no. 3, UNESCO/UNEP/INTERCOL International Working Group on Integrated Ecological Studies on Human Settlement. Paris: UNESCO, 2–6 June 1975.

Robert Hackenberg, *Davao Population Research Program, 1972 City-Wide Results*. Research Newsletter no. 1. Boulder, Colorado: Institute of Behavioral Sciences, University of Colorado, 25 March 1974.

Peter Kunstadter, "Natality, Mortality and Migration of Upland and Lowland Populations in Northwestern Thailand." Pp. 46–60 in Steven Polgar, ed., *Culture and Population*, Monograph no. 9. Chapel Hill: Carolina Population Center, University of North Carolina, 1971.

Third Week

D.J. Dwyer, ed., *The City as a Centre of Change in Asia*, *op. cit.*, pp. 141–151, 166–190, 216–230.

Steve Barnett, "Urban Is as Urban Does: Two Incidents on One Street in Madras City, South India." *Urban Anthropology* 2(2):129–160, 1973.

Douglas Butterworth, "Two Small Groups: A Comparison of Migrants and Non-Migrants in Mexico City." *Urban Anthropology* 1(1):29–50, 1972.

Bernard Gallin and Rita S. Gallin, "The Integration of Village Migrants in Taipei." In Mark Elvin and G. William Skinner, eds., *The Chinese City between Two Worlds*. Stanford: Stanford University Press, 1974.

Peter C.W. Gutkind, "African Urbanism, Mobility and the Social Network." Chapter 29, pp. 389–400, in G.W. Breese, ed., *The City in Newly Developing Countries*, op. cit.

Fourth Week

D.J. Dwyer, ed., *The City as a Centre of Change in Asia*, op. cit., pp. 243–283.

F.M. Dahlberg, "The Provincial Town." *Urban Anthropology* 3(2):171–183, 1974.

Surinder K. Mehta, "Some Demographic and Economic Correlates of Primate Cities: A Case for Revaluation." Chapter 23, pp. 295–308, in G.W. Breese, ed., *The City in Newly Developing Countries*, op. cit.

Hampak Sendūt, "The Structure of Kuala Lumpur, Malaysia's Capital City." Chapter 33, pp. 461–473, in G.W. Breese, ed., *The City in Newly Developing Countries*, op. cit.

N.V. Sovani, "The Analysis of 'Over-Urbanization'." Chapter 25, pp. 322–330, in G.W. Breese, ed., *The City in Newly Developing Countries*, op. cit.

ADDITIONAL READINGS: RESEARCH PROPOSAL APPLICATION FORMS AND ANNOUNCEMENTS

International Program for Population Analysis (IPPA) of the Interdisciplinary Communications Program, Smithsonian Institution

National Institutes of Health, U.S. Department of Health, Education, and Welfare

National Science Foundation

Rockefeller Foundation and Ford Foundation Program in Support of Population Policy Research in the Social Sciences

Analysis of Census and Survey Fertility Data

Lee-Jay Cho

Participants: Abdul Kader Faquir, Bangladesh; Sri Harijati Hatmadji, Indonesia; Sajjad Syed Hussain, Pakistan; S.M. Ishaque, Pakistan; Suk Hyun Kim, Republic of Korea; Liang-tsuin Gary Lu, Taiwan; Naibuka B. Navunisaravi, Fiji; Tatsuya Itoh, Japan

The workshop provided an opportunity for population statisticians from Asian and Pacific countries to examine theoretically the own-children approach to fertility estimation and also to work with actual data from some of those countries. Participants were given most of the relevant literature on the own-children methodology. Each participant was assigned a project focusing on a specific country.

Comparative applications of the technique were made to census data from Indonesia, Japan, and the Republic of Korea. For Japan, census data on own children exist along

with complete vital registration statistics; thus, the validation of the estimated refined fertility rates is possible. Indonesia, on the other hand, has much less accurate age data, so many problems arise in the application of the methodology. The Korean data were used to demonstrate how census information can be used to estimate recent fertility for small areas of the country as well as for different socioeconomic groups.

The participants performed the elementary methodological application on desk calculators during the first part of the workshop and were able to observe and examine the computer application of the more complex procedures and results.

The workshop was designed specifically for participants who are concerned with generating accurate fertility measurements for their own countries. Discussions of the estimation technique and of problems of incomplete registration statistics and deficiencies in the census data led to a better understanding of the problems and to some possible solutions.

Economic Determinants and Consequences of Population Growth

Dennis Chao and Johannes Overbeek

Participants: *Djamasri Adenan*, Indonesia; *Stuart J. Greenfield*, United States; *Neramit Dhanasakdi*, Thailand; *Paul K.C. Liu*, Taiwan; *Ts'ui-jung T.T. Liu*, Taiwan; *Sudhin K. Mukhopadhyay*, India; *Lee-Ying Soon*, Malaysia; *Rachaniwan Thavornjit*, Thailand

Observers: *Shui-Liang Tung*, Taiwan; *Yew W. Lai*, Malaysia

Workshop sessions were divided into three phases: (1) presentation and discussions of research plans and proposals; (2) lectures and discussions of topics in economic demography; and (3) production of a course outline and integrated bibliography on the economics of population for use by teachers and students, based on the experience and output of the Fifth Summer Seminar.

The following research plans and proposals were developed by workshop participants:

Mr. Adenan (Indonesia): Problems of Employment and Land Cultivation in Two Rural Areas of Central Java.

Dr. Greenfield (United States): The Impact of Industrialization, Urbanization, Education, and Government Expenditures on the Demographic Transition.

Dr. P. Liu (Taiwan): Chinese Tradition and Fertility Behavior in Taiwan: An Economic View.

Dr. T. Liu (Taiwan): Population Growth and Its Relations to the Chinese Economy, A.D. 1000–1850.

Dr. Mukhopadhyay (India): An Econometric Analysis of Household Behavior: The Case of India.

Miss Soon (Malaysia): Population Policy, Regional Development and Income Distribution in West Malaysia.

Miss Thavornjit (Thailand): Patterns and Consequences of Regional Migration in Thailand, 1960–1970.

Dr. Overbeek presented an overview of the history of economic demographic thought. He outlined the theories of economists concerned with population, including the Mercantilists, Malthus, and Wicksell, such twentieth-century economists as Keynes and Mukerjee, and such postwar writers as Spengler and Coale.

Dr. Chao lectured on the economic models of fertility behavior. He first presented the theoretical frameworks of the Chicago School micro-economic approach and the Harvard School economic development approach, comparing relative advantages and shortcomings of the two and suggesting ways to synthesize them. He then discussed recent developments in this field, including a paper of his own which deals with uncertainty in family-size decision making. Dr. Chao also discussed some of the problems in the empirical testing of those models.

Professor Richard Peterson of the Department of Business Economics and Quantitative Methods, University of Hawaii, was invited to address the workshop on the subject of economic models of fertility behavior. He presented a paper describing an empirical study of the effect of wealth on fertility.

Miss Soon and Miss Thavornjit presented an overview of migration theories relevant to the more affluent and less affluent nations. Dr. Paul Liu then introduced the Harris-Todaro two-stage migration model and Corden's extended vision. He discussed the limitations and policy implications of those models and how to test them empirically.

Dr. Greenfield discussed the relationships between economic development and population change with special reference to the impact of population growth on economic progress.

For the purpose of preparing a comprehensive course outline and integrated bibliography on the economics of population, workshop participants divided themselves into smaller groups, each responsible for one section. The participants concluded that the following topics should be covered in an undergraduate- or graduate-level course in population economics: demographic tools; trends and patterns of population growth; historical overview of population theories; economic determinants of population change; economic consequences of population change; interaction between population change and economic growth; optimum population theory; food, resources, and environment; and population policy.

Geography: Studies in Population Movement

Murray Chapman

Participants: *Fang-Hoei Chen*, Taiwan; *Nazrul Islam*, Bangladesh; *In Kim*, Republic of Korea; *Imaiyavalli Kumanan*, Sri Lanka; *Chow Pheng Lai*, Malaysia; *Jain Niroottinanont*, Thailand; *Lakshmi K. Ratnayake*, Sri Lanka; *A. Crosbie Walsh*, New Zealand

The workshop's aim of preparing a research proposal on some aspect of population movement was divided into four parts: the identification of topics and appropriate study designs within the context of population geography (week 1); examples of recent research by guest lecturers and resource persons (week 2); independent literature surveys and proposal development by participants (week 3); and formal presentation

of participants' proposals (week 4). In addition, Dr. Gary Fuller, EWPI Research Associate and UH Associate Professor of Geography, gave a briefing on past Seminar workshop efforts (1973 and 1974) to develop a curriculum guide in population geography for use in Asian and Pacific universities.

For the second part, guest lectures were given on the following topics: migration and the demography of Hawaii (Robert Schmitt, State Statistician, Department of Planning and Economic Development); migration and mental maps (Gary Fuller); residents leave paradise: out-migration from Hawaii to the U.S. mainland (Paul Wright, University of Hawaii); and intraurban migration and population redistribution in Hong Kong (Kenneth Miu, University of Hawaii). Dr. Richard Ulack, University of Kentucky, who had recently returned from migration research in the Philippines, served as resource person.

In addition to describing their research interests at the workshop's outset, participants prepared brief, five-page outlines of their proposed projects. These outlines provided the basis for detailed presentations during the final week. Topics discussed in lively fashion were rural movement into the Tao-Yuan Plateau of Taiwan (Fang-Hoei Chen), implications for migration research of the Dacca squatters' study (Nazrul Islam), rush-hour traffic as a form of population movement in Seoul, Korea (In Kim); resistance to movement out of a densely populated area, the Jaffna Peninsula of Sri Lanka (Imaiyavalli Kumanan); movement into new towns in Perak State, Malaysia (Chow-Peng Lai); movement since 1900 into the Anuradhapura District of Sri Lanka (Lakshmi Ratnayake); and ethnicity, population movement, and the growth of towns in Fiji (Crosbie Walsh). Written versions of these seminars were submitted for critical comment at the close of the Korean portion of the Seminar, with the hope that the final versions of at least some would receive funding from home institutions, interregional groups, or international agencies.

Population Socialization Research

James A. Palmore

Participants: *Celine M.A. Aluvihare*, Sri Lanka; *Maria Cynthia Rose C. Banzon*, Philippines; *Chan-Wha Chun*, Republic of Korea; *Pedro V. Flores*, Singapore; *Nasra M. Shah*, Pakistan; *Diwata A. Baluyut*, Philippines; *Ock-Kyung Kim*, Republic of Korea

Using as background documents the recommendations from the Population Socialization Conference held at the East-West Center in December 1974, each participant developed a proposal for research that could be carried out upon the participant's return to his or her home institution. Population socialization encompasses a broad field including all of the processes through which persons at various stages of the life cycle become oriented to matters directly or indirectly related to population. Since it includes the areas of population communication and population education, as well as other topics, the final research proposals were diverse in emphasis and scope.

Illustrative of the materials developed were two proposed experimental studies of particular population education curricula, a proposal dealing with the development of body concepts among young women, a proposed longitudinal study of attitude change among college students, and a proposal for a cross-sectional study of age differences in sex preference and the determinants of those differences.

Public Health: Operations Research in Family Planning

Chai Bin Park

Participants: *Napaporn Burapathana*, Thailand; *Vimala Chiamsakol*, Thailand; *Sujana Jatiputra*, Indonesia; *Nan-Hee Kim*, Republic of Korea; *Abdul Monaem*, Bangladesh; *Nam-Kyoon Oh*, Republic of Korea; *G. Rama Rao*, India; *Makhdoom A. Shah*, Pakistan; *Clarita E. Tan*, Philippines; *Nai Peng Tey*, Malaysia

Observers: *Busby Salesi Kautoke*, Tonga; *Hing L. Kwan*, Hong Kong; *Laddawan Srisukonth*, Thailand; *Miriam B. Sutton*, United States

The workshop consisted of three parts: (1) reviewing national family planning programs of selected countries, (2) formal discussions of certain operations research techniques, and (3) exercises in reaching optimal administrative decisions for the delivery of family planning services.

Current services of the family planning programs of the Republic of Korea and Thailand were described by participants. The coordinator discussed approaches to maximize the family planning services. The discussions focused on scheduling, resource allocation, inventory, and queuing problems. For each topic simple examples were sought with respect to family planning service.

Three groups were formed to work on target setting, maximizing acceptance, and evaluation techniques. A resource allocation model was applied for optimum target setting using the Korean data.

Sociology: Emerging Research in Social Demography

Peter C. Smith

Participants: *Hairi Abdullah*, Malaysia; *Macrina Abenoja*, Philippines; *Shiao-chun Chang*, Taiwan; *Malinee Chaumpluk*, Thailand; *Ta-Chou Huang*, Taiwan; *Mehtab Karim*, Pakistan; *Saichai Kumkanarp*, Thailand; *Nellie Mangubat*, Philippines

The workshop on emerging research in social demography was organized around the development of a research proposal by each of the participants. Each member of the workshop was responsible for an initial classroom presentation covering the outlines of a proposed investigation, a final classroom presentation of the completed proposal, and submission of a written proposal. These activities were facilitated by individual consultations with the workshop coordinator.

Workshop sessions were taken up by the oral presentations by participants and, scattered among these, a series of lectures by the workshop coordinator on topics in social demography of current interest to the group. The topics covered included: the assessment of nuptiality patterns from census and survey evidence; the measurement of unwanted fertility from survey data; and the use of aggregate (local-area) data in social demography.

In the course of the workshop participants generated research proposals in such diverse areas as adjustment patterns among migrants to urban areas and the impact of rural-to-urban migration upon rural communities; relationships between household

composition and female labor force participation and fertility; linkages among age at marriage, infant mortality, and fertility; and the role of community-level data in social demography.

Participants were provided with a list of recommended readings in social demography, and in addition several basic books were provided (see section on reading materials).

Reading materials

Copies of the books and articles listed below were given to participants for their personal use. Other assigned reading materials were made available to participants by the Institute's Resource Materials Collection, which maintains a reserve reading shelf.

General

Population Reference Bureau, 1975 World Population Data Sheet

Demography and Population Studies Library List

Family Planning and Population Library List

Lecture Courses

Advanced Social Demography

The Human Population. A Scientific American Book. San Francisco: W.H. Freeman and Co., 1974.

Kingsley Davis, "The Theory of Change and Response in Modern Demographic History." *Population Index* 29, October 1963, 345-366.

Eva Mueller, "Economic Motives for Family Limitation." *Population Studies* 26(3), 1972: 383-403.

Ansley J. Coale, "Population and Economic Development." In American Assembly, *The Population Dilemma*, 2nd edition. Englewood Cliffs, N.J.: Prentice-Hall, 1969, pp. 59-84.

Joe D. Wray, "Population Pressure on Families." In U.S. National Academy of Sciences, *Rapid Population Growth*. Baltimore: Johns Hopkins Press, 1971, pp. 403-461.

Amos H. Hawley, "World Urbanization: Trends and Prospects." In Ronald Freedman, ed., *Population: The Vital Revolution*. New York: Anchor Books, 1964, pp. 70-83.

Techniques of Estimation from Limited Data

Griffith Feeney, "The Own-Children Method of Estimating Age-Specific Fertility Rates." Paper prepared for Demographic Analysis and Data Evaluation Workshop, conducted by U.S. Bureau of the Census at the Department of Statistics, Malaysia, March 1975.

Nathan Keyfitz and Noreen Goldman, "Problems in Applied Mathematical Demography." Research paper No. 10. Cambridge: Harvard University Center for Population Studies, 1975.

Paul Demeny and Fredrick C. Shorter, *Estimating Turkish Mortality, Fertility and Age Structure: Application of Some New Techniques*. Publication No. 218. Istanbul: Faculty of Economics, University of Istanbul, 1968.

Paul Demeny, "Some Methods of Estimation for Statistically Underdeveloped Areas." In Henry S. Shryock, Jacob S. Siegel, and associates, *The Methods and Materials of Demography*. Washington: U.S. Bureau of the Census, 1971.

Griffith Feeney, "Estimation of Mortality Trends from Child Survivorship Data." Unpublished manuscript, East-West Population Institute, 1975.

Introduction to Population Issues

Donald Bogue, *Principles of Demography*. New York: John Wiley and Sons, 1969.

Basic Demographic Methods

Roland Pressat, *Demographic Analysis, Methods, Results, Applications*. Chicago: Aldine, 1972.

Henry S. Shryock, Jacob S. Siegel, and associates, *The Methods and Materials of Demography*, Vols. I and II. Washington: U.S. Bureau of the Census, 1971 and 1973.

Workshops

Analysis of Census and Survey Fertility Data

L.J. Cho, W.H. Grabill, and D.J. Bogue, *Differential Current Fertility in the United States*. Chicago: University of Chicago Press, 1970.

United Nations, *Manual #42: Methods of Estimating Basic Demographic Measures from Incomplete Data*. New York: United Nations, 1967.

Griffith Feeney, "Census Measurement of Nuptiality and Its Relationship to Child Mortality Estimation." Paper presented at Fourth Population Census Conference, East-West Center, Honolulu, Hawaii, May 1975.

Anthropology: Urban Community Studies on Demographic Topics

D.J. Dwyer, ed., *The City as a Centre of Change in Asia*. Hong Kong: Hong Kong University Press, 1972.

Bernard Gallin and Rita S. Gallin, "The Integration of Village Migrants in Taipei." In Mark Elvin and G. William Skinner, eds., *The Chinese City between Two Worlds*. Stanford: Stanford University Press, 1974.

Robert Boyd, *Urbanization, Morbidity and Mortality*, 1972.

Don Brothwell, "Community Health as a Factor in Urban Cultural Evolution." In Peter Ucko, Ruth Tringham, and G.W. Dimbleby, eds., *Man, Settlement and Urbanism*. London: Gerald Duckworth and Co., Ltd., 1972.

Gerald Breese, ed., *The City in Newly Developing Countries*. Englewood Cliffs, N.J.: Prentice-Hall, 1969.

Economic Determinants and Consequences of Population Growth

Julian Simon, *The Effects of Income on Fertility*. Chapel Hill: University of North Carolina, 1974.

Joseph Spengler, *Population Change, Modernization and Welfare*. Englewood Cliffs, N.J.: Prentice-Hall, 1974.

J.D. Pitchford, *The Economics of Population*. Canberra: Australian National University Press, 1974.

J. Overbeek, *History of Population Theories*. Rotterdam: Rotterdam University Press, 1974.

Geography: Studies in Population Movement

R.J. Pryor, *Internal Migration and Urbanization: An Introduction and Bibliography*. Townsville, Queensland: James Cook University, 1971.

G.J. Demko, H.M. Rose, and G.A. Schnell, eds., *Population Geography: A Reader*. New York: McGraw-Hill, 1970.

W. Zelinsky, L.A. Kosinski, and R.M. Prothero, eds., *Geography and a Crowding World: A Symposium on Population Pressures upon Physical and Social Resources in the Developing Lands*. New York: Oxford University Press, 1970.

L.A. Kosinski and R.M. Prothero, eds., *People on the Move: Studies on Internal Migration*. London: Methuen and Co., 1975.

K.G. Willis, *Problems in Migration Analysis*. Lexington, Mass.: Lexington Books, 1974.

J. Hansen and L.A. Kosinski, *Population Geography*. Brussels: International Geographical Union, Commission on Population Geography, 1973.

B.F. Kormoss and L.A. Kosinski, *Population Mapping*. Brussels: International Geographical Union, Commission on Population Geography, 1973.

Population Socialization Research

C. Westoff and R.H. Potvin, *College Women and Fertility Values*. Princeton: Princeton University Press, 1967.

Copies of all papers and materials from the Population Socialization Conference (EWPI, December 1974).

Public Health: Operations Research in Family Planning

F. Grundy and W.F. Reink, *Health Practice Research and Formalized Managerial Methods*.

Martin S. Feldstein, M.A. Piot, and T.K. Sundaresan, *Resource Allocation Model for Public Health Planning*, 1973.

R.L. Ackoff et al., *Scientific Methods Optimizing Applied Research Decisions*. New York: J. Wiley, 1962.

H.P. Halpert, W.J. Howath, and J.T. Yound, *An Administrator's Handbook on the Application of Operations Research to the Management of Mental Health Systems*, 1970.

W.C. Churchman et al., *Introduction to Operations Research*. New York: J. Wiley, 1957.

Sociology: Emerging Research in Social Demography

G. Hawthorn, *The Sociology of Fertility*. London: Collier-Macmillan, 1970.

J. Matras, *Populations and Societies*. Englewood Cliffs, N.J.: Prentice-Hall, 1973.

Calvin Goldscheider, *Population, Modernization, and Social Structure*. Boston: Little, Brown and Company, 1971.

C. Nam, ed., *Population and Society*. Boston: Houghton Mifflin, 1968.

THE EAST-WEST CENTER is a national educational institution established in Hawaii by the U.S. Congress in 1960 to "promote better relations and understanding between the United States and the nations of Asia and the Pacific through cooperative study, training and research."

Each year the East-West Center brings together more than 1,500 men and women from the many nations and cultures of these regions. They work and study together while exchanging ideas and experiences in cooperative programs seeking solutions to important problems of mutual concern to East and West. For each participant from the United States in Center programs, two participants are sought from the more than 60 countries and territories in Asia and the Pacific area.

Five institutes with international, interdisciplinary academic and professional staffs conduct the East-West Center's problem-oriented programs. East-West areas on which Center programs are focused include communication across national barriers, culture and language learning, food systems, population dynamics, and technological adaptation in developmental processes aimed at improving the quality of life. Each year the Center awards a limited number of Open Grants for graduate degree education and innovative research by Senior Fellows in areas not encompassed by institute programs.

The Center is directed by the Board of Governors of a public, non-profit educational corporation—known as "The Center for Cultural and Technical Interchange Between East and West, Inc."—created by the Hawaii State Legislature in 1975. The U.S. Congress provides basic funding for Center programs and a variety of scholarships, fellowships, internships and other awards. Additional cost-sharing of programs and participants is worked out with Asian/Pacific governments, regional agencies, private enterprise and foundations. The Center is situated on land adjacent to and provided by the University of Hawaii, which conducts classes and grants degrees for degree-seeking East-West Center students who also are involved in the Center's problem-oriented programs.

THE EAST-WEST POPULATION INSTITUTE, established as a unit of the East-West Center in 1969 with the assistance of a grant from the Agency for International Development, carries out multidisciplinary research, training, and related activities in the field of population, placing emphasis on economic, social, psychological, and environmental aspects of population problems in Asia, the Pacific, and the United States.

**East-West Population Institute
East-West Center
1777 East-West Road
Honolulu, Hawaii 96822**

Director *Lee-Jay Cho*
Publications Officer *Sandra E. Ward*
Editor *Elizabeth B. Gould*
Production Assistant *Lois M. Bender*

