

1. SUBJECT CLASSIFICATION	A. PRIMARY Serials	PA00-0000-0000
	B. SECONDARY Population--General	

2. TITLE AND SUBTITLE
 Population and development policy program; progress report, Jan.-Dec. 1978

3. AUTHOR(S)
 (101) Battelle Memorial Inst., Columbus, Ohio

4. DOCUMENT DATE 1979	5. NUMBER OF PAGES 27p.	6. ARC NUMBER ARC 301.32.B335-2/1978
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7. REFERENCE ORGANIZATION NAME AND ADDRESS
 Battelle

8. SUPPLEMENTARY NOTES (*Sponsoring Organization, Publisher, Availability*)

9. ABSTRACT

10. CONTROL NUMBER PN-AAG-682	11. PRICE OF DOCUMENT
12. DESCRIPTORS Population policy Development Family planning	13. PROJECT NUMBER 932000635
	14. CONTRACT NUMBER AID/pha-C-1169
	15. TYPE OF DOCUMENT

301. 32
232

AID/pha-C-1169
PN-AAG-682
6



Battelle

Human Affairs Research Centers

POPULATION AND DEVELOPMENT POLICY PROGRAM

SEMI-ANNUAL REPORT

1 July - 31 December 1978

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1 July - 31 December 1978

BATTELLE

POPULATION AND DEVELOPMENT POLICY PROGRAM

Battelle Human Affairs Research Centers
Health and Population Study Center
Population and Development Policy Program
Battelle Washington Operations Office
2030 M Street N.W.
Washington, D. C. 20036

31 January 1979

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I. INTRODUCTION

Contract Number AID/pha-C-1169 with effective date of 3 June 1977 between AID and the Battelle Memorial Institute provides for the analysis and evaluation of population policies and dynamics. As provided in the contract and in agreement with AID technical directions, Battelle Memorial Institute formed the Population and Development Policy Program (Battelle PDP) to carry out work under this contract.

This report covers Battelle PDP activities during the period 1 July to 31 December 1978. (A Progress Report on the period June 1977 - February 1978 and an Annual Report covering the first 13 months of operation have already been submitted). A presentation by PDP to AID's Office of Population in December 1978 focussed on two countries, Guatemala and Perú in which work has progressed rapidly over the past 18 months. The presentation cited evidence that judicious policy interventions can make way for more informed population and development policies in these and other countries.

Some highlights:

- The National Planning Board of Guatemala requested technical assistance from Battelle PDP in data analysis.
- Perú's government asked Battelle PDP for help in establishing a population unit within the Planning Institute to speed implementation of existing guidelines for a population policy.
- Following a Battelle PDP presentation to AID Near East and North Africa Mission Directors, Dr. Allman visited Egypt and Jordan to visit research institutions and identify government interest in collaborating with Battelle PDP.
- Battelle PDP initiated multi-country support activities: a presentation at the Inter-American Development Bank; exploratory meetings with the World Bank on population impact analysis; exchanges with UNFPA, ILO, IPPF and the Population Council on enhancement of collaborative activities.
- Battelle PDP developed a Management Information System (MIS) to deal with the increasing flow of proposals and projects generated by the program. To date 33 proposals totalling \$ 1,512,800 have been or are being submitted to put through a fourteen-step process of review.
- The Battelle PDP program review in October brought together Washington and Seattle staff with program directors from

Colombia, Guatemala, Perú and Haiti.

- The third two-day seminar of PDP Fellows coincided with the program review meeting.

II. PRESENTATION OF BATTELLE PDP PROGRAM ACTIVITIES TO AID

On 7 December 1978 Battelle PDP staff made a presentation on PDP activities to date to Dr. J. Joseph Speidel, Deputy Director, Office of Population, and Dr. Sarah Green, Acting Chief, Population Policy Division of the Office of Population. The presentation covered four topics: Case Studies, Country Project Support Activities, Multi-Country Support Activities and program administration.

Key to the presentation was the Battelle PDP Process and Framework for Policy Development, an approach designed by the PDP staff over the past 18 months based on experience in key countries such as Perú and Guatemala.

Country-specific work passes through four stages to develop effective population policies:

- (1) Awareness on the part of policymakers of the importance of the population problem coupled with a realization that solutions can be found;
- (2) Gathering of demographic and socioeconomic data and analyses for policy formulation;
- (3) Integration of population considerations into government planning and policymaking; and
- (4) Creation of a political climate warm to effective family planning programs.

The 'Talking Book' which accompanied that presentation is in the hands of the Office of Population Project Manager for Battelle PDP.

III. COUNTRY-SPECIFIC ACTIVITIES

A. Guatemala

Since the June 1978 seminar on Population, Development and the Environment, national interest in formulation of a population policy has gained impetus.

Two PDP projects are in place -- one with the Academia de Ciencias (BCA H-784), another with the Universidad del Valle (BCA H-708). The Academia project (P005GU) for production of five films on population and the environment which will be shown on national television and used to stimulate discussion in the private sector. Work done thus far indicates the need for technical assistance to the Academia. The del Valle project (P012GU/H-708) is underway.

A third subcontract (H708/H-1040) to fund a fertility survey to be conducted by Dr. Alfredo Méndez was signed in December 1978. This project is also with the Universidad del Valle.

Battelle FDP staff visited Guatemala in November (Trip Report # 23) and December 1978 (Trip Report # 29). The first visit was in answer to an invitation from the planning board to explore Battelle FDP support for analysis of data related to a key integrated rural development program. A further initiative on the part of the planning board is manifest in a letter from the Secretary General to Ing. Jorge Arias of ICAITI, stating interest in a project on labor force supply in Guatemala (P006GU) previously submitted to Battelle (see attachment # C). Both projects are in preparation.

At the invitation of IPEF, Ing. Arias prepared a thirty-page policy brief synthesizing the 31 papers presented at the June seminar. (See attachment # E). A proposal for publication and dissemination of the brief as Task Order number 3 to subcontract H-708 is under discussion.

No funding is being requested for the current activities of a small group of decisionmakers from the public and private sectors. This group has met with the President, the Vice President, the President of the National Congress, the ministers of Communications, Health and Defense, and plans to meet with all other relevant ministers and policymakers. Their goal is reactivation of the National Population Commission and establishment of a Technical Committee to draft a population policy.

B. Perú

Battelle PDP activities in Perú gained momentum during the past six months, with four of the ten proposals received July-December coming from that country. Central to the PDP country strategy is support to the National Institute of Statistics and to AMIDEP for training seminars designed to expand the understanding of social scientists, planners and policy-makers about the links between population and development.

AMIDEP's subcontract number H-706-01, which calls for a series of seminars at national universities for research scientists, is now in place. Three such seminars were held in the last six months of 1978 on "Scientific Research Methodology Applied to the Study of Population Problems", on "Population and Employment in Perú", and on "Internal Migration on Population Change in Perú" at universities in Ayacucho, Lima and Arequipa respectively. A fourth seminar is planned for January 1979 in Puno.

A PDP staff member visited Perú in October 1978 (See Trip Report # 26) to help draw up the subcontract with the National Institute of Statistics which will start in January 1979.

Both projects will benefit from a further proposal (PO27PE) received from AMIDEP for the holding of a National Conference on Population in 1979. This seminar will be a joint endeavor with INTERCIENCIA (Federation of Associations for the Advancement of Science), with funding inputs from the Population Council and the Ford Foundation as well as Battelle.

Of the three additional proposals received, two are now undergoing review: PO32PE is a request from the Instituto de Estudios Peruanos for a study of the determinants of family structure and fertility in a changing social environment and PO29PE from the Center for Population and Development Studies for an Inventory and Information Center for Population Studies in Perú. A third has been rejected.

The October trip identified and led to interest in development of proposals by other agencies in Perú including the Universidad Peruana Cayetano Heredia (UPCH) with the Peruvian Association of Medical Schools, the Militancia Feminista and the National Planning Institute.

Two recent events signal the arrival of the Integration phase of PDP work (see PDP Presentation to AID). The first was a visit from Dr. Juan Wicht to explore availability of funding and/or technical assistance for population unit within the National Planning Institute. The second was the appointment of the director of AMIDEP as advisor on population matters to the National Planning Institute, thus building on his role as advisor to the new Vice Minister of Health who has responsibility for implementing Perú's population policy.

C. El Salvador

Battelle PDP has funded two proposals since beginning work in El Salvador, both carried out by Lic. Alex Alens under subcontract H-701 with the Asociación Demográfica Salvadoreña (ADS). A publication summarizing the results of the first project (P001SA) - a seminar to discuss issues of population and development policy, primarily with regard to research needs - is now available in book form, edited by Alens: Población y desarrollo en El Salvador (356 pp.)

The second project (P003SA), a multi-task activity comprising both research and seminars, is progressing but more slowly than anticipated. The Annual Report noted the need to strengthen cooperative and collaborative activities between the ADS and the various agencies of the Government of El Salvador, in particular the Comité Técnico de Población. This need, as yet not met, appears in part responsible for the delay. In addition to a progress report, Alens has prepared a document presenting the substantive analysis derived from this current project: El Salvador: Sectores Sociales Claves en el Comportamiento Reproductivo de la Población y Sus Factores Determinantes (185 pp.)

A Battelle PDP staff member visited El Salvador in December 1978 (see Trip Report # 29) to assess the current situation. In meetings with AID Mission and ADS staff, he reviewed work completed to date, recommended revisions and additions, made further suggestions for the conduct of the remaining work to be done, and drew up detailed instructions for preparation of the adolescent fertility study referred to in the PDP Annual Report.

D. Ecuador

Continuing difficulties in the resolution of Battelle PDP's subcontract with the National Institute of Statistics (H703/P004EC) for the pre-seminar on population and development held in June 1978 blocked existing opportunities for project development in Ecuador. During two visits by PDP staff members, one in October (Trip Report # 26) and another a month later, (Trip Report # 28), the government showed real interest in overcoming problems posed by the contract language, and was receptive to suggestions for mutually acceptable modifications.

Until the contract is in place, Battelle has elected to play a brokering role between the Government of Ecuador and other funding entities, rather than stimulating further proposals to PDP. This role resulted in: Inter-American Development Bank interest in studies on differential urban - rural population projections in Ecuador; a vital statistics improvement (VISTIM) project to be funded by the National Center for Health Statistics; a training project of the Ministry of Agriculture, which was submitted to

the International Planned Parenthood Federation for funding; and a small rural credit cooperative, identified by the same ministry, which will be funded by the Pathfinder Fund.

During both visits PDP staff met with the United Nations mission in Ecuador to share information on project and funding priorities in that country. The new UNFPA program assistant for Ecuador expressed interest in an agricultural ministry research project on rural family migrations, and suggested that PDP might be the executing agency. A decision depends on the UN needs assessment scheduled to take place in 1979.

A regional seminar on women's projects, organized in Quito by the International Planned Parenthood Federation, benefited from the participation of representatives from INEC, JUNAPLA, and the ministries of health, education and agriculture, thus furthering the possibilities for inter-agency coordination in Ecuador.

E. Haiti

On 1 Nov 78 Danielle PDP received a copy of the second quarterly report of the Deschapelles Data Analysis Project (P002H/H-702). Major elements of that report include these findings:

- Mortality declined for all age groups between 1968 and 1972; the crude death rate declined from 12.7 to 7.5 during that period.
- The incidence of infant mortality in the Deschapelles area is much lower than in the rest of Haiti. The infant mortality rate in the Deschapelles area was 47 in 1972, versus about 150 for all of Haiti.
- Infant mortality actually declined during the severe food shortages of 1971, suggesting the efficacy of the nutrition surveillance program. This program was restricted to children less than six years old. It was this group which experienced constant or declining mortality in 1971, whereas mortality in the age group 5 - 50 years increased in 1971.
- Data from the retrospective maternity histories reveals that total fertility increased steadily in the area as a whole throughout the 1950's and the early 1960's, and then declined slightly in the late 1960's.
- Although fertility in the town of Deschapelles is lower than that of the surrounding villages, total fertility increased

in Deschapelles at the end of the 1960's whereas it declined in the surrounding villages.

- There has been a pronounced rise in fertility in the 15-19 year age group, apparently because the numerous recent migrants to Deschapelles in this age group are retaining the higher fertility which is characteristic of their rural origins.
- In terms of gross migration frequency, the populations of highland villages were the least mobile, lowland villages moderately mobile, and those of the towns of Borel and Deschapelles were most mobile. In all three areas though, in-migration and out-migration are very nearly offsetting in magnitude. Thus, net migration is less than 10% of gross migration to the three areas.

Dr. Allman visited the Center for Disease Control 14-17 November to assist Dr. P. Graitche, former field director of the 1978 Haiti Nutrition Survey with analysis of the data. The findings analyzed on breastfeeding duration, infant and child mortality and unit patterns will be published in a report to the Government of Haiti early in 1979. They suggest further research and policy measures which are currently under study.

F. Colombia

One Battelle PDP subcontract is already in place: P009CL/H-705, with the Foundation of Higher Education (FES), to analyze data derived from a longitudinal study of the PRIMOPS family planning and health services outreach program in Cali. The first project report, received November 1978, notes that the FES project has hired research and programming staff, that the initial round of data has been obtained, edited and cleaned, and the second round received. Both sets will be readied before a comparison of characteristics of users and non-users prior to intervention is made. Programming for that step is underway. The Principal Investigator, William Bertrand, will discuss further technical details during a PDP staff visit planned for January 1979.

In November PDP received a proposal (P030CL) from José Olinto Rueda of the National Department of Planning in Colombia: "The Dynamics of Demography: Economic Development and Spatial Distribution in Colombia 1930-1975". The proposal is under review.

G. Egypt

At the request of the Director of the Population and Family Planning Board (PFPB) in Egypt and the UNFPA/New York, Dr. James Allman visited Cairo 22 November to 17 December to attend the PFPB/UNFPA Program Review meeting and to consider the feasibility of the Battelle PDP program undertaking an evaluation of the Board's Population and Rural Development Program. This mission received strong support from USAID/Washington since AID's population activities in Egypt are increasing and significant technical support will be needed in the future. After discussions, field visits and documentation, a report on family planning and rural development in Egypt is being prepared as a preliminary step in project development.

During the visit researchers and policy makers were consulted and two proposals were prepared by Dr. Atef Khalifa, Director of the Institute of Statistical Studies and Research, University of Cairo, for analysis of survey data on fertility and family planning in rural Egypt and by Dr. Saad Gadallah, Director of the Social Research Center, American University of Cairo, for support for a meeting in 1979 on Development and Social Research. Additional proposals are being prepared and will be discussed with Egyptian and other Mideast researchers when Dr. Allman attends the seminar on Intermediate Variables of Fertility organized by the Institute of Statistics and Research and the Population Council 9-11 March 1979.

H. Jordan

At the request of the USAID/Amman Mission, Dr. James Allman visited Amman 17-21 December 1978. The USAID Mission and researchers at the University of Jordan Population Studies Center requested support for their activities in the population field. Specifically, inquiries were made concerning the possibility of Battelle PDP recruiting a demographer with experience in development research to be out-posted to the University of Jordan for two to three years. The demographer would be responsible for: (1) analysis of the substantial sets of data collected in Jordan in the last few years and (2) would prepare, with a suitable outside interdisciplinary team, in depth studies of population-development relationships in Jordan. It is hoped that a Battelle PDP economist would visit Jordan after or in conjunction with the RAPID presentation, scheduled for early 1979.

I. Brazil

Brazil's newly elected government will draw up the Third National Development Plan (1980-1984) within the coming months. Battelle PDP will respond to a request from the Office of Population for technical assistance in developing adolescent fertility projects in Brazil. A Brazilian visitor to the U.S., currently at the Stanford Research Institute, Guilherme Sedlacek, was selected as a PDP Fellow and attended the Third PDP Fellows Seminar in October 1978. Using data from a sample of ever-married women in Sao Paulo he will conduct an econometric analysis of fertility and labor-force participation in Brazilian cities.

J. Other Countries

In six other countries - Honduras, Bangladesh, Pakistan, the Philippines, Nigeria and Nepal - contacts established and work begun earlier in the program have been maintained without any concerted attempt to promote further developments at this time. The status of proposals from these countries is as follows:

- Honduras

Subcontract H707/PO11HN was signed in October 1978. This project allows CCRP in Colombia to assist the Honduran planning institute in development of a methodology to incorporate population variables and considerations into the planning process. A PDP staff member visited Honduras in July (Trip Report # 25) to help finalize the subcontract.

- The Philippines

A proposal submitted jointly by the Population Studies Center of the University of Michigan and the Population Institute of the University of the Philippines to Battelle on Contraceptive Continuation and Post-Adoption Fertility Rates in the Philippines: A Multivariate Analysis was rejected.

- Pakistan

A proposal (PO24PA) from the Carolina Population Center of the University of North Carolina with the Department of Sociology of the University of Karachi on "Understanding the Family Planning Attitude-Acceptance Gap in a Developing Country to Facilitate Target Group Redefinition" was rejected.

- Nepal

A project proposal entitled "The Fragile Mountain" (PO25NE) is under review by Battelle PDP. A combined ecological research documentary film effort, it is designed to investigate and communicate the environmental crisis currently taking place in the Himalayas.

IV. MULTI-COUNTRY SUPPORT ACTIVITIES

A. Presentation to Near East AID Mission Directors

As part of a meeting 14 Nov 78 on population dynamics and programs in the Near East, the PDP program gave a presentation to USAID Mission Directors in the region. As an outcome of the meeting, PDP staff visited Egypt and Jordan in December 1978 to explore project development. Other Battelle PDP support activities in that region are currently in the planning stage.

B. CBD/CRS Project

The Mexican government, with the support of Development Associates, Inc., will hold a conference in late 1979 on the commercial and community-based distribution of contraceptives in Latin America. Participants invited to the conference will include Latin American population policymakers who either are, or might become, involved in the commercial and community-based distribution of family planning services.

Battelle PDP will arrange for seven presentations at the conference: five will focus on major CBD/CRS projects in Central and South America, and two will review and critique current CBD and CRS activities throughout Latin America. These seven will constitute the prime resource around which most of the Mexican conference discussion will revolve.

Battelle PDP will also organize two small regional workshops, held prior to the conference, to bring together CBD/CRS project managers together with those contemplating the introduction of similar programs for an exchange of ideas and experience. Representatives from international donor organizations involved in CBD/CRS programs will also be invited to participate. Managers previously selected to speak at the conference will make an initial presentation at one of the workshops to permit analysis and discussion by workshop participants. Battelle PDP project staff will

assist in revising the presentations prior to the September conference in Mexico.

Battelle PDP will edit proceedings from the workshops and the conference and arrange a suitable format for publication in both English and Spanish.

Battelle PDP's involvement in this activity grew out of the Clustered Service Delivery sub-project undertaken last year. At that time staff identified, in collaboration with Columbia University, over 150 integrated projects in Latin America with programmatic concepts and/or systems that could be replicated elsewhere in the region, possibly through workshops for policymakers and program managers. Subsequent conversations with the staff of AID's Operational Research and Family Planning Service Delivery sections led to their request that Battelle PDP prepare and help conduct a major CBD/CRS conference that will: (a) focus exclusively on Latin America; (b) provide an in-depth analysis of project activity to date, and (c) stimulate more policymakers to undertake similar distribution activities appropriately adapted to their specific country needs.

From June 1977 to December 1978, 33 proposals were received by Battelle PDP. Ten of these have become subcontracts obligating a total of \$ 290,800. Thirteen proposals remain under consideration for funding, and ten have been rejected or referred.

Table 2
CUMULATIVE DATA ON ALL PROPOSALS RECEIVED
AND SUBCONTRACTS EXECUTED TO DATE

Country	Proposals Received	Funded	Under Consideration	Rejected/ Referred	Total \$ Requested (1000)	Total \$ Obligated as Subcontracts (1000)
Colombia	3	1	1	1	312.6	27.8
Ecuador	1	1	--	--	11.3	11.3
El Salvador	4	2	2	--	61.2	55.8
Guatemala	7	3	4	2	215.5	76.3
Haiti	1	1	--	--	67.2	67.2
Honduras	2	1	1	--	42.9	10.4
Nepal	1	--	1	--	220.0	----
Nigeria	2	--	--	2	1.8	----
Pakistan	2	--	--	2	88.7	----
Peru	6	1	4	1	218.3	42.0
Philippines	1	--	--	1	13.3	----
Other (Multi-country)	3	--	2	1	260.0	----
Totals	33	10	13	10	1512.8	290.8

A. Battelle PDP Program Staff Seminar

Battelle PDP Program staff from the Washington and Seattle offices met for two days in October 1978 to review country-specific and country support activities. Four PDP subcontractors - from Guatemala, Colombia, Perú and the Harvard School for Public Health - joined the group to ensure communication between U.S.-based staff and country practitioners.

The staff seminar provided a forum for presentation of the new Management Information System and an exchange of information on staffing, budgeting, and planning needs and procedures. The agenda and lists of participants follow.

PARTICIPANTS LIST

Battelle PDP Program Seminar

24 - 26 October 1978

Battelle:

William McGreevey
James Allman
Mayra Buvinic
Chris Cluett
Ramon Daubon
Patricia Engle
Cynthia S. Gilley
Michael Mertaugh
Della Messer
Michael Micklin
Sara Nerlove
Anne Sheffield
Dennis De Tray

SubContractors:

Carlos Cossich
Douglas Ewbanks
Roger Guerra
Rodolfo Heredia

AGENDA

**Battelle PDP Program Meeting
24 - 26 October 1978**

Tuesday, Oct. 24		PDP Staff Arrivals
	3:00 p.m.	Open Session
	5:00	Social Hour
	6:30	Dinner
	8:00	Introductions
Wednesday, Oct. 25	8:00 a.m.	Breakfast
	9:00	Review of Country Programs, Central America
		Carlos Cossich: Guatemala
		Michael Micklin: El Salvador
		Rodolfo Heredia: Honduras
	10:00	Coffee Break
		Review of Country Programs, South America
		Roger Guerra: Perú
		Rámon Daubón: Ecuador
		Anne Sheffield:
		William Bertrand: Colombia
	12:00	LUNCH
		Country Programs and Technical Assistance
		Douglas Ewbank: Haiti
		James Allman:
		Michael Mertaugh:
		Christopher Cluett: Nepal
	3:00 p.m.	Coffee Break
		Other Country Programs
		Dennis De Tray: Pakistan
		James Allman: North Africa
		Michael Mertaugh:
		William P. McGreevey: Nigeria, the Philippines, Other Countries
	5:00 p.m.	Social Hour
	6:30	Dinner
Thursday, Oct. 26	8:00 a.m.	Breakfast
	9:00	Executive Session, PDP Program Staff
		Sara Nerlove: Program Management System
		Michael Micklin: PDP Brochure and Proposal Requirements
	10:00	Coffee Break
		William P. McGreevey: Budget and Planning
	12:00	LUNCH
	2:30	Departures

B. Battelle PDP Fellows Program

During the reporting period four new Fellows were added to the Battelle PDP Fellows Program. They described their research plans at the Third PDP Fellows Seminar on October 22-24, 1978 at the Belmont Conference Center in Elkdrige, Maryland. Nine other Fellows presented developments in their research and participated jointly with PDP staff members in discussions on research methodology and data analyses.

The participants list and agenda for the Third Fellows Seminar are presented below. The next Fellows Seminar is scheduled for June 1979.

Seventeen Fellows have participated in the Program since its conception in the fall of 1977. Three of them have completed their doctoral study in U.S. universities and have returned to their home countries. A list of the Fellows, with U.S. university and home-country affiliations, follows. Fellows selected during this reporting period are indicated by asterisks.

AGENDA

**PDP Fellows Seminar
22 - 24 October 1978**

Sunday, Oct. 22	Arrivals	
	5:30 p.m.	Social Hour
	6:30	Dinner
	8:00	Introductions
Monday, Oct. 23	8:00 a.m.	Breakfast
	9:00	W. P. McGreevey: Opening Remarks
		M. Nizamuddin: Impact of Community-level and Program-level Factors on Fertility Behavior of Rural Pakistani Women
		Mohammed Alcuadin: Village-level Development Programs' Effect on Fertility Behavior in Bangladesh
	10:00	Coffee Break
		Muhiuddin Haider: Summary of future research plans
		Laura Ezekwe: Estimation of Singulate Mean Age at Marriage for 13 selected African Countries
	12:00	LUNCH
		Claudia Lecaros: Education and Rural Development in Columbia
		Helena Jaramillo: Analysis of Migration in Colombia
		Alberto Bayona: Relationship Between Fertility and Mortality and Intervening Contextual Factors in Colombia
	3:00 p.m.	Coffee Break
		Corazon Raymundo: Breast-Feeding Practice and Socio-Economic Differentials in the Philippines
		Melinda Montilla: Modernization, Ethnicity, and The Family in the Philippines
	5:00	Social Hour
	6:30	Dinner
Tuesday, Oct. 24	8:00 a.m.	Breakfast
	9:00 a.m.	Guilherme Sedlaczek: Married Women's Labor Force Participation, Fertility Behavior and Earnings Determination in Brazil and the United States
		Roberto Rios: An Analysis of the Determinants of Family Size in Latin America
	10:00	Coffee Break
		Sandra Rosenhouse: A Closer Look at Non-Numerical Responses to Questions on Ideal Family Size in Guatemala
		P. L. Joshi: Models for the Evaluation of Family Planning Programs in Nepal
		W. P. McGreevey: Closing Remarks
	12:00	LUNCH
		Fellows Departures

PARTICIPANTS LIST

Battelle PDP Fellows Seminar

22 - 24 October 1978

PDP Fellows:

Mohammed Alauddin	Bangladesh	University of Michigan
Alberto Bayona	Colombia	Tulane University
Laura Ezekwe	Nigeria	Princeton University
Muhiuddin Haider	Bangladesh	University of Michigan
Teresa Jayme Ho	Philippines	Stanford University
Helena Jaramillo	Colombia	Yale University
P. L. Jcsni	Nepal	University of California, Berkeley
Claudia Lecaros	Colombia	Stanford University
Melinda Montilla	Philippines	Utah State University
M. Nizamuddin	Pakistan	University of Michigan
Corazon Raymundo	Philippines	Harvard University
Roberto Rios	Peru	Columbia University
Sandra Rosenhouse	Guatemala	University of California, LA
Guilherme Sedlacek	Brazil	Stanford University

Battelle:

W. P. McGreevey
J. Allman
C. Cluett
P. L. Engle
C. S. Gilley
M. T. Mertaugh
M. Micklin
S. B. Nerlove

Mohammed ALAUDDIN, Bangladesh, ISWR, Dacca University; Ph.D. candidate, Population Sciences, University of Michigan.

Mr. Alauddin is on leave from his administrative and teaching position with Dacca University to pursue advanced studies. His empirical research deals with the impact of village development programs on contraceptive use and fertility. He is using data from the Bangladesh WFS in combination with area data on rural fertility.

*Alberto BAYONA, Colombia, Universidad Javeriana; Fulbright Visiting Professor of Sociology, Tulane University.

Dr. Bayona is on leave from his post as director of social studies at Javeriana in Bogotá. He has written several monographs and papers on population topics. He is analyzing 1973 census data on contextual factors influencing fertility and mortality.

Laura EZEKWE, Nigeria, University of Nigeria; Ph.D. candidate, Sociology/Demography, Princeton University.

Miss Ezekwe is writing her dissertation on the estimation of singulate mean age at marriage (SMAM) for 13 selected African countries. Her work was carried out as part of a research project in the Demographic Workshop of the office of Population Research. Her concern is with assessing a reliable measure of variations in marital patterns in non-European as contrasted to European populations.

Muhiuddin HAIDER, Bangladesh, University of Chittagong; Ph.D. candidate, School of Education, University of Michigan.

Mr. Haider became interested in population education while he was a student of Everett Rogers. He recently received a Ford Foundation grant for five months of field study in Bangladesh (Dec. 78 - May 79) to gather data on nonformal population education programs associated with the integrated rural development program.

T.J. HO, Philippines, University of the Philippines, Los Baños; Ph.D. candidate, Food Research Institute, Stanford University.

Mrs. Ho published several papers in the Philippines on female labor force participation and fertility before coming to the U. S.

* **New Fellows, fall 1976.**

for advanced study. She helped guide the Laguna survey of rural household behavior. Her doctoral research will draw on Filipino data and the Rand/Malaysia surveys.

Elena HURTADO, Guatemala, INCAP and USAID/Guatemala; MPH candidate, School of Public Health, University of California, Los Angeles.

Ms. Hurtado joined the Fellows program while she was studying at UCLA where she wrote on determinants of use and intended use of modern contraception in traditional and modern villages of Guatemala. In July of 1978 she returned to Guatemala where she worked on an AID evaluation of family planning programs in El Quiche. At a meeting on 28 Nov 78 at AID/Washington, Mr. Scott Edmonds praised the quality of her work. She is thus among the first of the PDP Fellows to return to her country and begin to contribute to policy development.

Helena JARAMILLO, Colombia, Universidad de los Andes, Bogotá; Ph.D. candidate, Economics, Yale University.

Ms. Jaramillo is writing her dissertation on the consequences of migration in Colombia. Her work is based on data drawn from the 1973 census. Beginning in the fall of 1978 she started a postdoctoral research project on fertility aspects of the same data set.

* P.L. JOSHI, Nepal, Population Commission, Government of Nepal; Ph.D. candidate, Biostatistics, University of California, Berkeley.

Mr. Joshi is on leave from his position as director of research and evaluation for the newly-formed Population Commission of Nepal. His current work includes development of models for the evaluation of family planning continuation rates. He is using data from the Nepal WFS.

Mehtab S. KARIM, Pakistan, Institute of Development Economics, Qaid Al Azam University; Ph.D. candidate, Sociology, Cornell University.

Mr. Karim has written on age at marriage and fertility in Pakistan using data from the National Impact Survey. For his doc-

toral work he is developing a project with Sabiha Syeed of the Population Planning Commission and Professor Peter Smith on the female life cycle from menarche to first parturition. He has been in Pakistan for the past several months and has recently returned to Cornell.

Claudia LECAROS, Colombia, Ph.D., School of Education, Stanford University.

Dr. Lecaros wrote her dissertation on education, development and income in rural Colombia. Her work is based on data drawn from the 1973 census and the Agrarian Census of 1970-71. She returned to Colombia in December 1978.

Melinda MONTILLA, Philippines; Ph.D. candidate, Department of Sociology, Utah State University.

Ms. Montilla is writing her dissertation on ethnolinguistic group differentials in the Philippines. Her work is based on the 1973 National Demographic Survey.

M. NIZAMUDDIN, Pakistan, Population Planning Commission, Islamabad; Ph.D. candidate, Population Sciences, University of Michigan.

Mr. Nizamuddin directed the Pakistan Fertility Survey while he was Deputy Director, TREC, Population Planning Commission. As part of his doctoral work he is writing on the acceptability of family planning in rural Pakistan. He is using PFS data for his study.

Corazon RAYMUNDO, Philippines, University of the Philippines; Ph.D. candidate, Public Health, Harvard University.

Mrs. Raymundo is working with data from the National Demographic Survey, 1973, done in the Philippines. She is examining postpartum amenorrhea, breastfeeding practices, socioeconomic differentials and their relationships to fertility. She recently completed a component of her doctoral dissertation entitled, "The nursing Filipino mothers: Their lactation and postpartum non-susceptible experiences."

* Roberto RIOS, Perú, Universidad de San Marcos; Ph.D. candidate, Columbia University.

Mr. Ríos is in the last phase of completion of a doctoral dissertation examining secular trends in mortality and fertility in Latin America. He has noted in his work a faster-paced fertility decline than was typical of the European demographic transition.

Sandra ROSENHOUSE, Guatemala. Instituto Nutricional de Centro América y Panamá (INCAP), Guatemala City; Ph.D. candidate School of Public Health, University of California, Los Angeles.

Ms. Rosenhouse is writing her dissertation on the evaluation of the validity of attitudinal survey data on fertility-related topics administered in Guatemala. Her work is based on the INCAP-RAND data and focuses primarily on desired family size.

Jorge SARAVIA, Colombia, Universidad del Valle del Cauca; Ph.D., Land Tenure Center, University of Wisconsin, Madison.

Dr. Saravia completed his doctoral work in 1978 on rural development and health status in Colombia. He used data from a 1973 health and nutrition survey. He has returned to his faculty position in the School of Economics, Universidad del Valle del Cauca.

*Guilherme SEDLACEK, Brazil, Instituto Getulio Vargas; Ph.D. candidate, Economics, University of Chicago.

Mr. Sedlacek joined the PDP Fellows program in October 1978, shortly after he began work on a study of fertility and women's work patterns in Brazil and the U.S. with James Heckman and the Stanford Research Institute. He intends to adapt econometric modeling techniques he is currently developing to use on survey data from São Paulo, Brazil.

C. Battelle PDP Working Papers

During the reporting period, the Battelle PDP Working Papers series was initiated. Battelle PDP staff and PDP Fellows are encouraged to submit papers for incorporation into the series.

Four papers have been published as of December 1978:

- No. 1 "Socioeconomic Change and Family Planning: Their Impact on Fertility" - William Paul McGreevey.
- No. 2 "Sex Differences in the Effects of Nutrition and Social Class on Mental Development in Rural Guatemala" - Patricia L. Engle, Charles Yarbrough, John Townsend, Robert E. Klein, Marc Irwin.
- No. 3 "Consequences of Adolescent Motherhood in Rural and Modern Guatemala" - Patricia L. Engle, et.al.
- No. 4 "Guatemala: Development and Population" - William Paul McGreevey and Anne Sheffield, eds.

VI. BATTELLE POPULATION AND DEVELOPMENT POLICY PROGRAM

