Building National Capacity in the Social Sciences

Ensights from Asia

Abe Weisblat and Bryant Kearl

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BUILDING NATIONAL CAPACITY IN THE SOCIAL SCIENCES Insights from Experience in Asia

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by Abe Weisblat and Bryant Kearl

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ACKNOVLEDGMENTS

The proposal for this study emerged from my discussions with friends and coworkers concerned with the issue. I was preparing to retire after 27 years with the Agricultural Development Council. My friend David Hopper of the World Bank suggested that the time had come to use my lifetime of experience in the foundation world by taking a look at the fellowship programs these organizations had supported to strengthen the professional capacity of Asian social scientists dealing with problems of agriculture and rural development.

The philanthropic world had played a special role in these programs, largely because it was able to maintain some independence from the factional issues within nations and the tensions of international relations. Except in a few special situations, changes in political leadership and ideology had done remarkably little to disrupt or interrupt these programs. Foundations were able to experiment with new approaches to the process of human capital development and to think beyond the urgencies and tactics of the moment in establishing training goals and strategies.

The Ford and Rockefeller foundations, the Agricultural Development Council, and the International Development Research Centre of Canada were key organizations in this effort, as was the U.S. Agency for International Development, which made an impressively flexible contribution to building social science capacity in Asia at that time. We thus focused on their projects.

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Abraham M. Weisblat

BUILDING NATIONAL CAPACITY IN THE SOCIAL SCIENCES Insights from Experience in Asia

WHY A STUDY WAS NEEDED

By the end of the 1940s, a small but growing number of professionally trained social scientists were directing their research at policy issues that face the developing world; however, virtually all of these individuals had been born and brought up in industrialized countries and were products of the universities of those countries. The third world needed to develop its own capacity to study its social and economic problems empirically.

To meet this need, fellowship programs were begun that took third world nationals to developed countries to study and to become proficient in using the tools and methods of social science inquiry. Governments, lending agencies, and philanthropic organizations devoted great human and financial resources to supporting third world students who pursued advanced degrees in the social sciences in the United States and other industrialized countries.

Donors and third world policy leaders were aware that overseas-fellow-ship programs did not offer a definitive or permanent solution to the problem. Developed-world universities rarely offered courses or curricula that focused on the problems of developing countries, such as policy alternatives for primarily subsistence rural economies. By training abroad, fellows had few opportunities to conduct applied research into development problems and to collect data in settings where those problems occurred. The costs of overseas training were high, scarce foreign exchange was required to meet them, and the possibility of losing the newly trained scientists to jobs in the developed world was an important financial (as well as intellectual) risk.

But the donors saw no other option for achieving a high level of competence quickly. They expected the third world to depend on the industrialized world for training temporarily, but they recognized that no country would have an adequate supply of well-trained, problem-oriented social scientists until it could train them itself.

The fellowship programs had a variety of goals. Some tried simply to increase the number of individuals with advanced training; that is, they were not focused on particular positions or organizations. Some were part of institution-building programs; they produced graduates in specific fields such as economics and sociology to fill emerging positions in teaching and research.

Regardless of approach, the programs made a difference. Most developing countries now have their own groups of scholars using social science theories and methodologies effectively to shape and implement sound policies. At the same time, the abilities of many developing countries to train their own social scientists have grown dramatically. In these changed circumstances, the roles of international donor agencies and developed-country educational institutions need to be rethought.

HOW THE STUDY WAS DONE

This study looked at four major fellowship programs carried on since the 1950s to build the capacities of Asian countries to examine socio-economic issues scientifically. It paid particular attention to four countries, each of which has unique university and governmental traditions and each of which has devised its own strategy for human resource development.

The study sought information on the accomplishments and problems of these programs as a source of insights for the future. It gathered information on the places the former fellows have taken in the world of social science and governmental policy, their evaluations of their overseas experiences, and their advice to donor agencies on future programming. It emphasized how the fellows have helped their home countries become better able to train social scientists and what must be done to maintain and expand that training capacity.

This study asked former fellows to respond to a detailed questionnaire about their training and employment experiences. It also included supplementary interviews with fellows' present or potential employers in the third world: 33 university leaders, government administrators, and private-sector executives in India, Indonesia, the Philippines, and Thailand. These employers were asked to comment on the usefulness to their countries of the work of social scientists who were trained abroad and on steps that must be taken to achieve or maintain the level of social science competence their countries need.

The Subjects

This study drew its data from a comprehensive survey of Asian social scientists who had received fellowships for graduate study in industrialized countries. Questionnaires were mailed to 944 men and women who

- were from Bangladesh, India, Indonesia, Korea, Malaysia, Nepal, Pakistan, the Philippines, Republic of China, Singapore, Sri Lanka, or Thailand
- studied in social science fields
- were in fellowship programs between 1960 and 1985
- were supported by the Ford Foundation, Rockefeller Foundation, Agricultural Development Council (A/D/C, now Winrock International Institute for Agricultural Development), or International Development Research Centre (IDRC)

A copy of the questionnaire was sent to the best available address for each of the former fellows. Of course, in three decades donor agencies and home institutions had lost track of some of the fellows; thus, 105 questionnaires were returned unopened because the addressee was deceased or was unknown at the address given.

The Ouestionnaire

The questionnaire consisted of 44 questions that solicited information and opinions on a wide range of issues related to the respondent's employment history, study program, and professional activities. It also requested demographic data (see appendix 2).

The Respondents

Of the 839 questionnaires that we assume reached their addressees, 435 were completed and returned. (Some of the tables in this report show fewer than 435 responses. We omitted the <u>no response</u> or <u>not applicable</u> groups in calculating percentages when doing so presented a clearer, more informative picture.)

Considering the geographic dispersion of the respondents and the long period during which most had been out of touch with the fellowship donors and programs, the response rate of 51.8% for a mailed question-naire is acceptable and compares favorably with the response rates for similar studies.

The response rate varied considerably from country to country (see table 1). Three regions that have few former fellows (Korea, Sri Lanka, and Taiwan) responded most promptly and in the highest percentages. In each of these countries virtually all of the former fellows were concentrated in a few institutions in the national capital or major university cities. The help of individuals at these centers made it possible to deliver questionnaires and collect responses personally.

In countries that are larger or have more former fellows (such as India, the Philippines, and Thailand), potential respondents were more scattered. We could follow up only by letter, and some of the resulting response rates were lower.

Rates of response differed somewhat among funding agencies (see table 2). IDRC had the highest rate, probably because its fellowship program was more recent and, therefore, its contact with the fellows was more recent and its mailing list was more current. A/D/C also had a good response rate, probably because follow-up activities are strong and, therefore, the mailing list is up to date.

Although the Asian fellowship programs of the Ford and Rockefeller foundations were larger than A/D/C's or IDRC's, they included physical and biological scientists, and we did not send questionnaires to those individuals. A/D/C limited its funding in Asia to social scientists,

Table 1. Rate of fellows' response to questionnaire by country.

| Country | Questionnaires delivered | Questionnaires returned | Rate of response |
|---------------------|-----------------------------|----------------------------|------------------|
| Bangladesh India | 81 158 | 18 69 | 22.2 43.6 |
| Indonesia | 103 | 68 | 66.0 |
| Korea | 22 | 22 | 100.0 |
| Malaysia | 55 | 23 | 41.8 |
| Nepal | 42 | 15 | 35.7 |
| Pakistan | 36 | 14 | 38.9 |
| Philippines | 147 | 86 | 58.5 |
| Singapore | 22 | 4 | 18.2 |
| Sri Lanka | 13 | 12 | 92.3 |
| Taiwan | 21 | 16 | 76.2 |
| Thailand | 139 | 88 | 63.3 |
| TOTAL | 839 | 435 | 51.8 |

Table 2. Rate of fellows' response to questionnaire by funding agency.

| Funding agency | Questionnaires delivered | Questionnaires returned | Rate of response |
|--|-----------------------------|----------------------------|------------------|
| Ford Foundation Rockefeller Foundation | 290 | 105 | 36.2 |
| | 165 | 71 | 43.0 |
| A/D/C | 363 | 243 | 66.9 |
| IDRC | 21 | 16 | |
| TOTAL | 839 | 435 | 51.8 |

so all of its former fellows in the 12 countries received questionnaires. It is more heavily represented among respondents because it played a more prominent role than the others in supporting social science training in Asia.

Age. The age distribution of respondents reflected the trend in support for overseas graduate study and was affected by the retirement and death of members of the older generation. Only 15% were under 35, 40% were between 35 and 44, 27% were between 45 and 55, and 18% were 55 or older.

Parents' characteristics. Education stopped in primary school for 28.5% of the fathers of respondents and 57.0% of the mothers. Farmer was listed as the occupation of 22.8% of the fathers and 12.2% of the mothers of respondents. Business was listed for 19.1% of the fathers and 8.0% of the mothers.

Rural-urban distribution. It is difficult for any third world fellow-ship program to direct opportunities for graduate study to students of rural background because there is a geographical bias toward urban areas in primary and secondary education as well as at the university level. The four fellowship programs described in this study have had at least modest success in breaking this barrier to support students with rural backgrounds and interests. Just 29.2% of respondents grew up in cities of 100,000 population or more; 50.1% came from rural areas or communities of less than 20,000.

Sex. The fellowship programs have been less successful in coping with sex bias than with geographical bias. The reasons for the widespread bias that favors men are complex, but they include a societal expectation that women's career aspirations and plans revolve around marriage and motherhood. Families, school systems, and ultimately fellowship selection committees have all had to deal with an unspoken societal assumption that it is better to invest scarce educational resources in men than in women. Lists of candidates who are qualified by education and experience for overseas graduate study are still dominated by men's names.

Some progress has been made in offering opportunities to women, but the gap is still wide (see table 3). Nevertheless, the pool of qualified women applicants for graduate study has been growing, and donors and funding agencies have become increasingly sensitive to the need to support women students.

Table 3. Proportions of men and women participating in the fellowship programs.

| Sex | | ≥ 1970 % | 1970 N | 9–1985 % | To | tal |
|-------|-----|-------------|-----------|-------------|-----|------|
| Men | 108 | 88.5 | | 80.9 | 358 | 83.1 |
| Women | 14 | 11.5 | | 19.1 | 73 | 16.9 |

Date degree completed. Most of the respondents completed their overseas programs after 1975. This total reflects the way that fellowship support built up slowly through the fifties and sixties. The decline in support that occurred in the eighties is not reflected because the study only included persons whose overseas study ended by 1985. The

response rate was somewhat higher for recent fellows because address lists for them were more up to date.

Developed—vs developing—country institution. Nearly all of the fellows (99.3%) completed master's degrees, about half with financial support from an international funding agency. The growth in third world capacity to offer work beyond the baccalaureate is evidenced by the fact that a little more than half earned their M.S. or M.A. degrees in a developing country.

Two-thirds of the fellows completed Ph.D. degrees. A small but growing proportion (11.7% of the total holding the doctorate) received that degree from a third world institution.

Discipline. The social science discipline that received the greatest attention in the fellowship programs was economics (see table 4). Of all fellows, 55% listed an economics major -- 33% in agricultural economics and 22% in general economics.

Table 4. Distribution of fellows by discipline.

| | Before 1970 1970-1985 | | | Before 1970 1970-1985 | | -1985 | To | tal |
|---|-----------------------|------|-----|-----------------------|-----|-------|----|-----|
| Discipline | N | % | N | % | N | % | | |
| Economics (agricultural | 67 | 55.3 | 167 | 54.4 | 234 | 54.7 | | |
| or general) Sociology (rural or | 67 | د.در | 107 | J4.4 | 234 | 34.7 | | |
| general) | 12 | 9.9 | 39 | 12.7 | 51 | 11.9 | | |
| Education (including extension) | 8 | 6.6 | 22 | 7.2 | 30 | 7.0 | | |
| Business administration Political science and | 10 | 8.3 | 16 | 5.2 | 26 | 6.1 | | |
| public administration | 3 | 2.5 | 15 | 4.9 | 18 | 4.3 | | |
| Rural development | 6 | 5.0 | 12 | 3.9 | 18 | 4.3 | | |
| Anthropology | 3 | 2.5 | 5 | 1.6 | 8 | 1.9 | | |
| Psychology | 0 | 0.0 | 7 | 2.2 | 7 | 1.6 | | |
| Communication | 2 | 1.7 | 3 | 1.0 | 5 | 1.2 | | |
| Home economics | 2 | 1.7 | 1 | 0.3 | 3 | 0.7 | | |
| Other | 8 | 6.6 | 20 | 6.5 | 28 | 6.5 | | |
| TOTAL | 121 | | 307 | | 428 | | | |

Sociology was the major field for about 12%, education for 7%, and business administration for about 6%. Other fields studied by at least 1% of graduates included political science and public administration, rural development, anthropology, psychology, and communication.

The distribution by discipline is significant. It represents joint decisions by home countries and donors about which social science fields had the most to offer at the time and could benefit most from programs to strengthen staffing and research capacity.

In fields other than economics, modest gains have been made in recent years; 15 of the 18 persons doing graduate work in political science or public administration completed their studies after 1975.

Career progress. A large number of fellows returned to work in their home countries after completing study abroad (see table 5). Of those who responded, about 97% indicated that their first jobs after overseas study were in their home countries. Five persons went to other third world countries and only four took employment in an industrialized country. There is no evidence of a later exodus. In 1985, 95% of the respondents were still at work in the third world.

Table 5. Locations of fellows' jobs.

| Location | Firs after re | Job as of 1985 N % | | |
|--|--------------------|---------------------------|----------------------|---------------------------|
| Home country Other third world country Developed country No response | 421 5 4 5 | 96.8 1.1 0.9 1.1 | 402 11 20 2 | 92.4 2.5 4.6 0.5 |
| TOTAL | 435 | | 435 | |

A clear majority of the fellows returned to academic positions, for the most part in junior ranks (assistant professor, instructor, research associate). About 56% still serve in universities (see table 6).

Although none of the four fellowship programs carried an employment obligation, the first-job choices of returned fellows were influenced by national and agency human resource goals. University employment was the predominant first-job choice for returning fellows, particularly those from Thailand, the Philippines, Taiwan, India, Indonesia, and Bangladesh, at least 60% of whom found their first employment in the academic world. Respondents from Pakistan were somewhat more likely to begin their careers in research institutions and those from Korea, Sri Lanka, and Nepal in governmental administrative and policy agencies. Respondents who were funded by the Ford and Rockefeller foundations were most likely to return to university employment (86% for Ford and 87% for Rockefeller); 57% of A/D/C fellows and 50% of IDRC fellows returned to universities.

Table 6. Types of organizations employing fellows.

| | Firs after re | Job as of 1985 | | |
|--|------------------|-------------------|-----|------|
| Type of organization | N | % | N | % |
| University | 272 | 62.5 | 242 | 55.6 |
| Research institute | 70 | 16.1 | 71 | 16.3 |
| Governmental administrative or policy agency | 60 | 13.8 | 64 | 14.7 |
| Foundation | 13 | 3.0 | 25 | 5.7 |
| Private firm or self-employed | 13 | 3.0 | 28 | 6.4 |
| Other | 2 | 0.5 | 2 | 0.5 |
| No response | 5 | 1.1 | 3 | 0.7 |
| TOTAL | 435 | | 435 | |
| | | | | |

Whatever their official title and employment unit, most fellows (57.9%) continued to have teaching responsibilities in their jobs as of 1985 (fewer, however, than the 66.8% for whom teaching was a part of the first jobs they held on their return home). Nearly 60.2% continued to have research responsibilities. The biggest single change, as might be expected, was the increasing percentage who held university or governmental administrative and managerial duties: 29.2% in their first jobs and 46.8% in their 1985 jobs.

WHAT THE STUDY REVEALED

The results of our survey revealed the following characteristics and opinions of the former fellows.

What have the fellows accomplished professionally?

The career advancement and increased responsibilities of the returned fellows were evidenced in their answers to questions about job titles on their return and in 1985 (see table 7).

In each country, fellows' employment shifted modestly over the years from university to private business or self-employment. This was particularly pronounced in the Philippines, where 4.8% of the respondents initially took jobs in private business and 10.6% were in the private sector in 1985. Conditions of employment in the Philippines during this period, especially in government, may have contributed to this trend.

Returned fellows could expect to move into positions where they would influence the methods and materials of teaching, research, and policy analysis. Answers to the questionnaire indicate that this has occurred.

Table 7. Occupations of fellows on return home and in 1985.

| | Firs after re | Job as of 1985 | | |
|---|------------------|-------------------|-----|------|
| Occupation | N N | % | N | % |
| Academic administrator (president, rector, vice chancellor, dean, department chair, etc.) | 33 | 7,8 | 68 | 15.7 |
| Director of research or policy review | 27 | 6.4 | 45 | 10.4 |
| Governmental administrator | 26 | 6.1 | 38 | 8.8 |
| Senior teacher (professor, associate professor) | 58 | 13.7 | 101 | 23.4 |
| Institute or governmental research worker | 57 | 13.4 | 52 | 12.0 |
| Private business person | 12 | 2.8 | 28 | 6.6 |
| Junior research or teaching staff member (assistant professor, instructor, research associate) | 208 | 49.1 | 97 | 22.5 |
| Other | 3 | 0.7 | 3 | 0.7 |
| TOTAL | 424 | | 432 | |

Even a cursory review of the titles currently held by the respondents leaves no doubt as to their critical roles in socioeconomic policy in their countries. There is probably no better way to show how significant these four programs of fellowship support have been than to catalog some of these titles. Among the former fellows are persons who held the following positions of senior academic leadership at the time of this study:

- Rector for general administration, Hasanuddin University
- President, University of the Philippines
- Vice chancellor, University of Peredeniya
- Rector, University of Lampung
- Member of the board, Allahabad Agricultural Institute
- Vice chancellor, University of Agricultural Sciences, India
- President, Tamil Nadu Agricultural University

- Director, Notre Dame School of Greater Manila
- Vice rector, Thammasat University
- President, Leyte Institute of Technology
- Director, Allahabad Agricultural Institute

Others with major university administrative assignments included

- Dean of graduate studies, University of Indonesia
- Dean, School of Social Work, University of the Philippines
- Dean, Lambung Mankurat University, Indonesia
- Dean, Maharaja Sayajirao University, India
- Vice dean of financial affairs, Syiah Kuala University
- Dean, Korean College of Agricultural Cooperatives
- Director, General Affairs Division, Mahidol University
- Dean, Faculty of Social Sciences, Kasetsart University
- Associate deans of business administration and of development economics, National Institute of Development Administration, Thailand
- Dean, College of Management, Seoul City University
- Registrar, University of Dhaka
- Dean, Universiti Pertanian Malaysia
- Director, Post-Graduate Institute of Agriculture, University of Peredeniya
- Dean, College of Business Administration, University of the Philippines
- Vice president for planning, Central Mindanao State University

For many others, administration was combined with research leadership in university-based posts:

- Director, Institute for Economic and Social Research, University of Indonesia
- Director, Center for Policy Research, Universiti Sains Malaysia
- Director of development and research, Administrative College of India
- Director, Population Research Center, Hasanuddin University
- Director, Sarmaul Institute, Seoul National University
- Research director, Korean Rural Economics Institute
- Director, Population Studies Center, Gadjah Mada University
- Director, Research and Development Institute, Khon Kaen University
- Director of research, Bangladesh Academy for Rural Development
- Associate director of extension and training, Kasetsart University
- Director, Library and Information Center, National Institute of Development Administration, Thailand
- Director, Applied Economics Research Centre, University of Karachi
- Director of extension programs, University of Indonesia
- Chief of research, Pakistan Institute of Development Economics
- Assistant director, Research and Development Center, Central Luzon State University
- Director, Institute of Philippine Culture, Ateneo University

Former fellows were also administrative leaders in governmental agencies:

- Assistant minister, Ministry of Agriculture, Indonesia
- Chairman, Agricultural Development Authority, Sri Lanka
- Chairman, Bangladesh Agricultural Research Council
- Deputy chief, Agricultural Prices Commission, Pakistan
- Governor, Ministry of Interior, Thailand
- Director general, Malaysian Farmers' Organization Authority
- Director, Ministry of Health, India
- Director, Ministry of Lands and Development, Sri Lanka
- Deputy director, Ministry of Agricultural Development and Research, Sri Lanka
- Deputy minister, Ministry of Agriculture, Philippines
- Director-general of international monetary affairs, Ministry of Finance, Indonesia
- Deputy director of rural development, Sri Lanka
- Minister coordinator for economics, finance, and industry, Indonesia
- Chief executive officer, Government of Malaysia
- Director of cocoa marketing, Federal Agricultural Marketing Authority, Malaysia
- Deputy director, Agricultural Extension Service, Sri Lanka
- Rural development officer, Office of Accelerated Rural Development, Thailand
- Deputy director, National Institute of Local Governments, Bangladesh
- Chief economist and senior economist, Agricultural Projects Services Center, Nepal
- Chairman, national development planning agency, Indonesia
- Planning officer, Bureau of Internal Revenue, Philippines

The highest-level government official in Taiwan (the president) is a former fellow, and Taiwan's coordinating structure for agricultural administration (the Council for Agricultural Planning and Development) rests heavily on persons who took part in the four fellowship programs. They include the chairman, deputy director, and deputy secretary-general of the council and the chief of its agricultural trade division. Other former fellows are the commissioner of the provincial Department of Agriculture and Forestry and the chief of its farmer's assistance division.

Some former fellows perform governmental or quasi-public duties in research and administration:

- Deputy secretary general, National Research Council, Thailand
- Director, Land and Development Institution, Indonesia
- Director, Ground Water Research Institute, India
- Director of sociology, National Institute of Rural Development, India
- Director, Council of Agricultural Research and Development, Philippines

- Chief, Center for Agro-Economic Research, Indonesia
- Director, Bureau of Economic Analysis, National Planning Agency, Indonesia
- Director, Training Institute for Agricultural Officials, Ministry of Agriculture, Korea
- Research director, Unibraw Research Center
- Executive director, Ecumenical Foundation for Minority Development, Philippines
- Executive director, Philippine-American Educational Foundation
- Director, Netherlands Foundation
- Project manager, Philippine Rainfed Resources Development Project
- President, Dansalan College Foundation

Those working in academic institutions have been active contributors to efforts to improve course content and curriculum. Almost all continue to contribute to their professions and scholarly fields (see table 8).

Table 8. Teaching contributions of fellows employed in universities, $1985 \, (N=242)$.

| | Frequency of activity | | | | | | |
|---|-----------------------|-----------|-------|-------------|--|--|--|
| Activity | Often | Sometimes | Never | No response | | | |
| Supervised graduate students | 57.4 | 22.3 | 12.8 | 7.4 | | | |
| Developed or presented new courses | 36.4 | 48.8 | 7.0 | 7.9 | | | |
| Designed changes in curriculum | 34.7 | 49.6 | 8.7 | 7.0 | | | |
| Prepared and published teaching materials | 15.7 | 54.5 | 21.9 | 7.9 | | | |

Note: Figures are percentages of respondents.

The returned fellows also were expected to engage in social science research and, more particularly, make use of theory and test it empirically with data collected in the field. This expectation, too, was largely met (see table 9). Nearly half (46.4%) often participated in research requiring field data collection. These studies included personal scholarly research as well as applied studies on behalf of government, international agencies, and the private sector.

On the administrative side, a majority of fellows (52.2%) have participated in interagency planning, provided special planning or

administrative seminars, helped revise administrative procedures, and advised government, the private sector, and international agencies. As might be expected, earlier fellows were more deeply involved in a number of these activities than the more recent fellows.

Table 9. Fellows' research and other professional activities (N=435).

| | Frequency of activity | | | | | |
|--|-----------------------|-----------|-------|-------------|--|--|
| Activity | Often | Sometimes | Never | No response | | |
| Research activities | | • | | | | |
| Participated in research requiring field data collection | 46.4 | 38.9 | 6.4 | 8.3 | | |
| Directed research for government or institution | 42.8 | 33.3 | 14.5 | 9.4 | | |
| Submitted proposals for research funding | 35.9 | 44.6 | 9.4 | 10.1 | | |
| Other professional contributions | | | | | | |
| Presented papers at professional meetings | 28.5 | 52.4 | 10.8 | 8.3 | | |
| Planned workshops for colleagues | 19.8 | 53.8 | 17.0 | 9.4 | | |
| Published articles in professional journals | 19.8 | 50.1 | 20.2 | 9.9 | | |
| Published material in scholarly books | 15.6 | 46.2 | 26.4 | 11.7 | | |
| Refereed articles for professional journals | 10.8 | 37.0 | 38.6 | 13.6 | | |
| Wrote notes or book reviews for journals | 6.4 | 37.7 | 44.6 | 11.3 | | |

Note: Figures are percentages of respondents.

Those who received degrees from 1970 to 1975 were clearly different from their predecessors and successors. For the most part, they

returned to units where the pioneering work of establishing their field had been done but a shortage of trained personnel still existed. As a result, the 81 in this group (18.3% of all respondents) were more likely than any comparable group to have collected research data in the field, proposed research for funding, planned workshops for colleagues, initiated services and programs, developed or revised institutional policies, and served as consultants to business, government, or foundations.

Those who returned before 1970 seemed to have been slightly more active in publication; those since 1975 were more likely to have taught quantitative or policy-related courses and to have conducted quantitative and policy-related research.

How useful was the fellowship experience to the fellows' work?

Fellows said the knowledge and skills they acquired overseas were useful both in their first jobs on return home and, to a lesser degree, in their current work (see table 10). Only 2.3% said that their fellowship experiences were of slight or no value in preparing them for their first jobs on return home, and only 2.8% expressed that opinion about their fellowships' usefulness to their present work.

Table 10. Fellows' evaluations of the usefulness of their overseas training to their jobs.

| | Firs after re | | Job as of 1985 | | |
|--------------------|------------------|------|-------------------|------|--|
| Evaluation | N | % | N | % | |
| Extremely valuable | 250 | 57.5 | 241 | 55.4 | |
| Valuable | 105 | 24.1 | 126 | 29.0 | |
| Somewhat valuable | 27 | 6.2 | 36 | 8.3 | |
| Slightly valuable | 8 | 1.8 | 10 | 2.3 | |
| Not valuable | 2 | 0.5 | 2 | 0.5 | |
| No response | 43 | 9.9 | 20 | 4.6 | |
| TOTAL | 435 | | 435 | | |

To provide more information about the strengths and weaknesses of overseas training, the fellows were asked which items on a list of tasks were currently important responsibilities for them. Those identifying a task as important were then asked about the contribution their graduate study had made to their ability to perform it (see table 11).

The heavy involvement of former fellows in managerial duties should come as no surprise, nor is it surprising that their graduate study

did less to prepare them for management than for other aspects of their present work. This situation suggests that in-service management training may be needed.

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Table 11. Fellows' assessments of the usefulness of their overseas training in preparing them to perform certain tasks.

| Task | Number of fellows identifying task as important to their jobs | Percentage of those fellows who said their graduate study overseas was very useful or useful in making them able to perform the task |
|---|---|--|
| Teaching | | |
| Teaching theory or research methods | 220 | 95.0 |
| Teaching applied social science | 225 | 89.8 |
| Researching | | |
| Doing applied research on local problems | 307 | 87.0 |
| Doing scholarly research | 180 | 92.8 |
| Providing expert advice on economic and social issues | 217 | 84.8 |
| Performing managerial duties | 197 | 49.8 |

How satisfactory were the fellows' choices of major field, university, and dissertation topic?

For a student from a third world country, the choices involved in study abroad are difficult and often bewildering. Language limitations must be taken into account, as must the student's level of preparation in mathematics and in research tools and theory.

The problem is compounded by the fact that in a fellowship program the student is not the only one whose views must be considered. His or her home institution and home government, in consultation with the donor agency, may have some preferences as to the fields they will

support and universities they will consider for placement. It would be surprising to find unanimity about how well the student adapted to a strange country, a new institution, and a discipline whose vocabulary, tools, and concepts may have been unfamiliar.

This survey gave the former fellows an opportunity to respond generally to their initial program decisions (major field of study, choice of university, and dissertation-research topic for doctoral students). Of those responding to the questions, 86.2% described themselves as either very satisfied or satisfied with the choice of overseas university to attend and 94% expressed satisfaction about the choice of field of overseas study. Of the 376 who responded to the question about choice of a dissertation topic, 84.9% said they were very satisfied or satisfied (see table 12).

Table 12. Fellows' expressions of satisfaction with initial fellowship-program decisions.

| Level of satisfaction | Choice of major field (N=429) | Choice of university (N=429) | Choice of dissertation topic (N=376) |
|-----------------------|-------------------------------------|------------------------------|--------------------------------------|
| Very satisfied | 76.0 | 68.7 | 61.2 |
| Satisfied | 18.6 | 17.5 | 23.7 |
| Somewhat satisfied | 2.8 | 8.2 | 11.2 |
| Dissatisfied | 1.9 | 4.2 | 2.7 |
| Very dissatisfied | 0.7 | 1.4 | 1.3 |

How satisfactory were the elements of the program?

A variety of elements made up the fellows' overseas training programs — the courses offered, academic counseling and guidance, contacts with other students, participation in professional activities, support services for conducting research, and the like. The former fellows were given a list of 12 such elements and asked to indicate their satisfaction with each of them. One rating stands out: the returned fellows would have liked a great deal more opportunity to attend professional meetings during their studies abroad (see table 13).

The respondents did not give as high a rating to special services for foreign students as they did to other components; however this may have been a matter-of-fact comment that they were for the most part treated like other students, not a complaint that their needs were unmet.

Table 13. Fellows' expressions of satisfaction with elements of their training programs.

| Element | Average rating for all respondents |
|---|------------------------------------|
| Access to faculty for help and advice | 3.25 |
| Variety and range of courses offered | 3.28 |
| Quality of courses in major field | 3.27 |
| Medical and health-care facilities | 3.12 |
| Amount of contact with fellow students | 3.13 |
| Guidance in planning academic program | 3.04 |
| Special services for foreign students | 2.72 |
| Chances to attend professional meetings | 2.64 |
| For research students only: | |
| Access to research-support services | 3.44 |
| Help in planning research project | 3.05 |
| Help in analyzing data and writing dissertation | 2.95 |
| Help in collecting data | 2.67 |

Note: 4.0 = very satisfactory; 0.0 = not at all satisfactory.

The part of their program that research students found least satisfactory was help in data collection. This may reflect the special circumstances of data collection in social science. All of the research students in this study faced the choice of collecting data in a strange land or collecting data at home without direct and frequent contact with a dissertation adviser.

We compared levels of satisfaction with program components among fellows from India, Indonesia, the Philippines, and Thailand. The Indian fellows gave a slightly higher overall rating than did the rest of the group, but they reported less satisfaction with amount of contact with fellow students and access to research-support services. These lower ratings may relate to the fact that many from India completed their overseas study earlier, when universities in developed countries were less familiar with foreign students and less well prepared to meet their needs. Students from Thailand reported slightly less satisfaction than the others with the guidance they received in planning their academic programs and research projects.

How appropriate was the process used to select fellows?

Respondents were not asked directly about the selection process by which they were chosen for fellowships, but the question was posed in terms of how future fellows should be selected.

In the four fellowship programs studied, there was considerable interaction between home institution, home country, donor agency, and fellow. Home-country personnel and institutions were good at evaluating fellows and creating opportunities for them on return home. Donor agencies were good at identifying appropriate overseas sources of training, evaluating the strengths and weaknesses of graduate institutions and programs, and assessing the likelihood that an individual would complete an overseas program successfully. Donors also were better able sometimes to make selections without considering politics and personal matters.

On balance, however, it would not have been surprising to see the respondents urge a much bigger role for home-country institutions and personnel and a smaller role for outsiders such as donors. Instead, fellows still seemed to prefer the kind of partnership that existed in the past (see table 14).

Table 14. Fellows' recommendations about procedures for selecting new fellows.

| Recommendation | | by year | of co | | recommen of lates 1980 or N | t degree |
|--|-----|---------|-------|------|--------------------------------------|----------|
| Fellows should be selected entirely by home-country personnel | 27 | 22.1 | 39 | 20.4 | 30 | 25.4 |
| Fellows should be selected entirely by donor agency | 21 | 17.2 | 22 | 11.5 | 25 | 21.2 |
| Fellows should be selected by donor after local nominations and consultation | 62 | 50.8 | 120 | 62.8 | 57 | 48.3 |
| Other or no response | 12 | 9.8 | 10 | 5.2 | 6 | 5.1 |
| TOTAL | 122 | | 191 | | 118 | |

Respondents agreed with donor agencies about criteria that are important for selecting fellows (see table 15). All four donor agencies have emphasized two criteria above all others: likelihood of success in graduate study and potential for using social science training at home.

Table 15. Fellows' assessments of the emphasis that should be placed on the various qualifications of potential fellows.

| Qualification | by year of co | assessments ompletion of 1970-1979 | s, grouped latest degree 1980 or later |
|---|---------------|------------------------------------|--|
| Academic merit | 3.37 | 3.40 | 3.42 |
| Potential as a staff member | 3.32 | 3.28 | 3.15 |
| Interest in national development | 2.90 | 2.98 | 3.07 |
| Probability of being influential through position, background, etc. | 1.12 | 1.25 | 1.22 |

Note: 4.0 = should be given great emphasis; 0.0 = should be given little emphasis.

The similarity of responses among the different age groups suggests that, despite the variety of nationalities, disciplines, ages, and backgrounds represented among the former fellows, there is consensus about what a fellowship should require and represent.

What subjects were neglected or overemphasized?

About 66% of all respondents mentioned some subject area to which they would give greater attention if they were starting graduate study again. Research methods were mentioned by 29%, more intensive study of the theory of their disciplines by 16%, and more courses that relate directly to third world issues by 15%.

Only 18% mentioned subject areas they felt received too much attention in their graduate study. Most mentioned theory as an overemphasized area; a smaller number mentioned mathematics and the history of their disciplines.

How appropriate were the dissertation research practices?

Students from the third world who expect to do a dissertation and receive a Ph.D. degree now have many alternatives. Recognizing that large Western universities offer a broad range of graduate-level courses and seminars, they can turn to such universities for a breadth they cannot yet expect to get at home. Some of the same considerations apply to dissertation research. A large university will have, among its professors and graduate students, a breadth of knowledge and experience and a variety of research-support services (particularly

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libraries and computer services) that can enrich almost any research project. At the same time, the student who expects to carry on a lifelong career of research in the home country may want the dissertation to be a foundation on which later work can be built. In some cases, the fellows' experiences did not conform to what they believed to be the best practices (see table 16).

Table 16. Fellows' assessments of alternatives for combining graduate course work and dissertation research.

| Practice | Fellows who experienced this practice | | | Fellows who considered this practice more useful and practical than the alternatives | | |
|--|---------------------------------------|------|-----|--|--|--|
| Course work and research in home country | 15 | 4.4 | 8 | 2.0 | | |
| Course work in home country, research abroad | 6 | 1.8 | 13 | 3.2 | | |
| Course work abroad, research in home country | 120 | 35.3 | 241 | 59.2 | | |
| Course work and research abroad | 199 | 58.5 | 145 | 35.6 | | |
| TOTAL | 340 | | 407 | | | |

The fellows' enthusiasm for directing dissertation research at their own countries' problems is unmistakable. Only slightly more than a third would recommend doing dissertation research at the overseas university, whereas 94.8% approve of the doctoral course work being done there. However, these figures can be expected to change as the universities of Asia grow in social science breadth.

How helpful was the agency that funded the fellowship?

The amount of encouragement and support the donor agency gave its fellows while they were studying abroad correlates with the satisfaction fellows expressed about their programs and the success they have attained in their careers. The donor agency can help to ensure that fellows will benefit from their study programs by providing them with adequate assistance.

The former fellows were asked about five areas in which individuals studying abroad are most likely to experience problems: travel, immigration, academic work, family, and health. They were asked whether they had required help in any of these areas and, if so, whether they received adequate help from the agency funding the fellowship. Funding agencies were most likely to be needed and helpful with problems of travel and immigration (see table 17).

Table 17. Fellows' evaluations of donor support during study abroad.

| Former fellows' evaluation grouped by year of complete Area in which Number of latest degree | | | | | | | |
|--|-------------------------|-------------|-----------|-------|--|--|--|
| help was needed | responding ^a | Before 1975 | 1975–1985 | Total | | | |
| Travel | 363 | 3.81 | 3.64 | 3.72 | | | |
| Immigration | 317 | 3.69 | 3.58 | 3.63 | | | |
| Academic work | 309 | 3.32 | 2.86 | 3.06 | | | |
| Health | 266 | 3.12 | 2.97 | 3.04 | | | |
| Family | 235 | 2.83 | 2.41 | 2.59 | | | |

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Note: 4.0 = adequate help; 0.0 = not enough help. aExcludes those who reported they needed no help.

All of the funding agencies provided help that their fellows considered adequate. Comparisons among the four funding agencies showed no important differences. However, the differences between earlier and later groups are striking in each problem area. The more recent groups of fellows were more likely to report inadequate levels of help from the agencies funding their work. The widest variance was in academic matters.

Have donors become less sensitive to the nonmonetary needs of their fellows and less willing to help them deal with personal problems? Probably not. For example, the generational difference appeared among fellows supported by all four funding agencies. It could not be explained by any pattern of change in the staffing, policies, or resource allocations of these agencies, and such changes were not uniform across the agencies. The earlier group of fellows may have benefited from being a new phenomenon in Western universities; however, their novelty could have created as many burdens as benefits. Probably a better hypothesis is that time has lent both nostalgia and realism to the judgments of the older group.

The area in which the fewest fellows needed help was <u>family problems</u>; however, those who felt they needed help with family problems were more dissatisfied with the help they received than those who received help in other areas.

How satisfactory was the program as a whole?

The questions about program components made it possible to correlate the fellows' judgments about the adequacy of the program to other variables. Since most funding agencies supported students at the same universities and in the same general range of social science fields, there was virtually no difference among them in their fellows' judgment about adequacy of their programs (see table 18).

Table 18. Fellows' expressions of satisfaction with their fellowship programs.

| T | Fellowship program Ford Rockefeller A/D/C IDRC | | | | | | | |
|--------------------------------------|--|----------|----|------|-----|------------------|-----|------|
| Level of satisfaction | For N % | <u>a</u> | N | % | N | <u>'D/C</u> % | N % | |
| Very satisfactory to satisfactory | 90 | 34.9 | 58 | 84.1 | 194 | 80.8 | 13 | 81.3 |
| Less than satisfactory | 16 | 15.1 | 11 | 15.9 | 46 | 19.2 | 3 | 18.8 |
| TOTAL | 106 | | 69 | | 240 | | 16 | |

The levels of satisfaction that fellows expressed about their programs were related, as expected, to their appraisals of the help they received from their funding agencies with problems concerning travel, immigration, academic work, family, and health (see table 19). Those who indicated that they did not need this kind of assistance or that the assistance they received was adequate tended also to be those who described their overall fellowship experiences as fully satisfactory.

Anyone who had academic, family, or health problems in a strange land probably would be less likely to describe the fellowship experience as fully satisfactory than someone who had no such problems. Nevertheless, the responses suggest that by giving help at a crucial time, the donor can make a big difference in the fellow's satisfaction with the overseas experience.

Although all of the former fellows expressed general approval of the various aspects of their programs, those who completed their training most recently were somewhat less satisfied (see table 20).

Recent graduates approved slightly less than earlier graduates of the variety and range of courses offered, the quality of courses in their major field, the guidance they received in planning their academic programs, the amount of contact they had with fellow students, and the

level of special services provided for foreign students. Those who finished after 1975 reported satisfactory experiences, but they were more sparing than the earlier graduates in their use of superlatives to describe it.

Table 19. Fellows' expressions of satisfaction with the fellowship experience compared to satisfaction with help received from funding agency.

| Satisfaction with fellowship experience | Satisfaction wit Adequate N % | help received Inadequate N % | |
|---|-------------------------------------|-------------------------------|--|
| Very satisfactory Satisfactory Less than satisfactory | 111 34.4 176 54.5 36 11.1 | 11 16.2 24 35.3 33 48.5 | |
| TOTAL | 323 | 68 | |

Note: Excludes those who reported they needed no help.

Table 20. Fellows' expressions of satisfaction with the fellowship experience by recency of return home.

| Level of satisfaction | | of completi re 1975 % | on of latest on 1975 N | degree 5-1985 % |
|-----------------------------------|-----|-----------------------------|---------------------------|-----------------------|
| Very satisfactory to satisfactory | 175 | 87.1 | 176 | 77.9 |
| Less than satisfactory | 26 | 12.9 | 50 | 22.1 |
| TOTAL | 201 | | 226 | |

There is no basis for determining how much of this generational gap represents a real and lasting difference. Perhaps the earlier graduate students have had a longer perspective from which to appraise what they learned, or perhaps the passage of time has made their recollections more nostalgic.

An important finding was the relationship between satisfaction with the study program and extent of continued contact with the home institution during the period abroad (see table 21). The fellows were asked how often they communicated with their home institutions about progress on their study programs, research plans, and future roles at home.

Table 21. Fellows' expressions of satisfaction with the fellowship experience compared to amount of contact with home institution during study abroad.

| | Amount of contact with home institution Frequent Occasional Little or non | | | | | |
|-----------------------------------|---|------|-----|--------|-----|------|
| Level of satisfaction | N | % | N N | % % | N | % |
| Very satisfactory to satisfactory | 53 | 91.4 | 194 | 81.5 | 92 | 78.0 |
| Less than satisfactory | 5 | 8.6 | 44 | 18.5 | 26 | 22.0 |
| TOTAL | 58 | | 238 | | 118 | |

More than a fourth had little or no continuing contact about their academic work and research. Nearly half had no contact about their expected roles at home. The lack of contact represented lost opportunities for both the fellow and the home country. Contact with the home institution correlated significantly with satisfaction with the study program; fellows with frequent contact were more likely to describe their study experiences as very satisfactory or satisfactory.

Perceived level of preparation for graduate study had surprisingly little relationship to degree of satisfaction with the fellowship experience (see table 22).

In mathematical skills, knowledge of statistics, research methodology, and theory, most fellows felt they started their overseas study at least as well prepared as other students. Even in mathematics, where the greatest weakness was reported, more than two-thirds said they were as well or better prepared than their fellow students.

The fellows from Thailand indicated a little less confidence in their level of academic preparation than did those from other Asian countries. Nearly 29% described themselves as not adequately prepared in one of the four academic areas. Only 20% of all other respondents said they were not adequately prepared. Language may have been a factor; however, students from other countries where English was not the language of university instruction (Indonesia, Korea, and Taiwan) were more likely than Thais to express confidence in their ability to compete on equal terms.

The responses on level of preparation give indirect but impressive evidence that fellowship programs have been achieving their goal of strengthening undergraduate education in developing countries. At any rate, year by year each new group of fellows has reported increased confidence in the quality of its undergraduate preparation (see table 23).

Table 22. Fellows' expressions of satisfaction with the fellowship experience compared to perceived adequacy of preparation.

| Inval of maticfaction | Less well than othe | prepared r students | <u> </u> | etter pre- | :s |
|-----------------------------------|---------------------|------------------------|-----------|------------|--------|
| Very satisfactory to satisfactory | N 151 | % | N 183 | 82.8 | _ |
| Less than satisfactory | 35 186 | 18.8 | 38 221 | 17.2 | |

Note: The areas considered were mathematics, statistics, research methodology, and theory.

Table 23. Fellows' assessments of adequacy of preparation.

| Perceived adequacy of preparation | Year of Before 1965 (N=46) | completion 1965-1974 (N=147) | | |
|--|----------------------------------|------------------------------------|------|------|
| Better prepared than other students | 4.3 | 11.6 | 12.8 | 12.5 |
| As well prepared as other students | 60.9 | 57.8 | 67.0 | 71.4 |
| Less well prepared than other students | 34.8 | 30.6 | 20.2 | 16.1 |

Notes: The areas considered were mathematics, statistics, research methodology, and theory. Figures are percentages of respondents.

What problems were caused by language barriers?

Of the many variables examined, language problems were the greatest cause of fellows' dissatisfaction with their study programs. Even in countries where English is the language of university instruction, it may be a second language for a large number of students (see table 24).

Table 24. Fellows' assessments of problems caused by language barriers.

| Task hindered by language problems | skills prese | or whom language ented serious to ous problems |
|---|--------------|--|
| Participating in class discussions | 72 | 18.4 |
| Writing examinations within time limits | 54 | 13.2 |
| Writing assigned papers | 50 | 12.1 |
| Understanding lectures | 32 | 7.7 |
| Reading assigned literature | 20 | 4.8 |
| Communicating with friends and teachers | 19 | 4.6 |
| One or more of the above | 91 | 23.0 |

Reading was much less of a problem for the fellows than were participating in class discussions and preparing written assignments. As might be expected, the most serious language problems were reported by fellows from regions where university instruction was not conducted in English — Indonesia, Korea, Taiwan, and Thailand. At least 44% of the respondents from these areas reported moderate to serious problems in reading, understanding lectures, writing papers and examinations, and taking part in classroom give-and-take. The fellows who reported the least difficulty with English also reported greater satisfaction from their overseas study experiences (see table 25).

Unfortunately, many of the kinds of students an externally funded fellowship program has the greatest obligation to serve are particularly susceptible to language problems: In almost every country, students who grew up in rural areas or in lower-income families are

less likely to be fluent in English or other languages of overseas study.

Part of this problem will solve itself as programs of graduate study are expanded in Asia so fewer students need to go abroad for advanced training. For those who do go abroad, however, language preparation is essential and must be thought of as an investment in the success of the program and the satisfaction of students and institutions.

Table 25. Fellows' expressions of satisfaction with the fellowship experience compared to degree of language difficulty.

| Satisfaction with fellowship experience | Degree of language difficulty | | | | | | | |
|---|-----------------------------------|-------------------------|--|--|--|--|--|--|
| | No serious problems (N=307) | Some problems (N=84) | Serious or very serious problems (N=23) | | | | | |
| Very satisfactory to satisfactory | 86.5 | 73.8 | 52.2 | | | | | |
| Less than satisfactory | 13.4 | 26.2 | 47.8 | | | | | |

Note: Figures are percentages of respondents.

How involved were the adviser and host department in third world issues?

Home-country institutions and donor agencies have done an impressive job, right from the start, in placing their fellows in departments that are involved in third world problems, where they can work with advisers familiar with the subject and with other students from the developing world (see table 26). However, the growth in enrollment of students from developing countries has not only slowed down in recent years but also may have become more concentrated in fewer institutions.

What problems did fellows have when they returned home?

Few of the fellows (less than 10%) reported serious problems in relocation, reestablishment, or adjustment on completing their study programs. In specific areas, however, some problems take on increased significance.

Fewer than 8% reported any serious difficulty adjusting to family obligations, the tempo of life, cultural norms, or the political situation at home when they returned from studying abroad (see table 27). Since the respondents had adjusted successfully to the tempo, lifestyle, cultural norms, and other elements of the foreign country in

which they studied, it was no surprise to learn how little difficulty they had in coping with similar personal adjustments on their return.

Even fewer had serious difficulty finding appropriate jobs and gaining the acceptance of their coworkers. Much more difficulty centered around getting the resources the fellows felt they needed to perform their duties successfully at their home institutions (see table 28).

Most dissatisfaction and concern were expressed about professional development. Of half a dozen potential problems in professional development, all but one (local opportunities to publish research) were considered serious by significant numbers of respondents (see table 29).

Opportunities to attend professional meetings abroad, to get additional training, to finance research activities, and to purchase books and journals were the areas most often cited as presenting serious problems. Somewhat less difficulty was reported in arranging to attend in-country professional meetings.

Table 26. Fellows' assessments of involvement of advisers and host departments in third world issues.

| | | Fellows ear of co e 1965 | mpleti 1965 | on of -1975 | latest de | 1975 |
|---|----|--------------------------------|----------------|----------------|-----------|------|
| Type of involvement | N | % | N | % | N | % |
| Host department's involvement in third world issues was | | | | | | |
| Great | 6 | 12.0 | 39 | 25.5 | 67 | 28.9 |
| Limited | 26 | 52.0 | 75 | 49.0 | 125 | 53.9 |
| Little | | | | | | |
| (or no response) | 18 | 36.0 | 39 | 25.5 | 40 | 17.2 |
| Adviser had experience In student's country In other third | 8 | 16.0 | 38 | 24.8 | 66 | 28.4 |
| world country | 18 | 36.0 | 61 | 39.9 | 112 | 48.3 |
| In developed world only (or <u>no response</u>) | 24 | 48.0 | 54 | 35.3 | 54 | 23.3 |
| The number of third world students in the host department was | | | | | | |
| 5 or more | 25 | 50.0 | 93 | 60.8 | 159 | 68.5 |
| 1 to 5 | 17 | 34.0 | 47 | 30.7 | 48 | 20.7 |
| None (or <u>no response</u>) | 8 | 16.0 | 13 | 8.5 | 25 | 10.8 |

Table 27. Fellows' assessments of personal and family-related problems encountered on return home.

| | Se | rious | | ibing prob or none | No response | |
|---|----|-------|-----|-----------------------|-------------|-----|
| Problem area | N | % | N | % | N | % |
| Financial settling in | 76 | 17.5 | 328 | 75.4 | 31 | 7.1 |
| Logistical arrangements Adjustment to | 68 | 15.6 | 339 | 77.9 | 28 | 6.4 |
| political situation Adjustment to | 32 | 7.4 | 369 | 84.8 | 34 | 7.8 |
| family obligations Adjustment to tempo | 26 | 6.0 | 375 | 86.2 | 34 | 7.8 |
| and style of life Readjustment to | 24 | 5.5 | 379 | 87.1 | 32 | 7.4 |
| cultural norms | 13 | 3.0 | 389 | 89.4 | 33 | 7.6 |

Table 28. Fellows' assessments of employment-related problems encountered on return home.

| • | Ser | ious | Minor | or none | No response | |
|---|-----|------|-------|---------|-------------|------|
| Problem | N | % | N | % | N | % |
| Lack of equipment and | | | | | | |
| supplies | 127 | 29.2 | 274 | 63.0 | 34 | 7.8 |
| Lack of economic rewards Heavy professional | 113 | 26.0 | 288 | 66.2 | 34 | 7.8 |
| responsibilities Lack of transport for | 85 | 19.5 | 312 | 71.7 | 38 | 8.7 |
| job-related travel Limited institutional | 83 | 19.1 | 316 | 72.6 | 36 | 8.3 |
| interest in research | 68 | 15.6 | 329 | 75.6 | 38 | 8.7 |
| Heavy teaching load Poor employment policies | 65 | 14.9 | 312 | 71.7 | 58 | 13.3 |
| of institution Difficulty in finding | 62 | 14.3 | 340 | 78.2 | 33 | 7.6 |
| appropriate job Poor social status of | 23 | 5.3 | 375 | 86.2 | 37 | 8.5 |
| professional work Lack of acceptance by | 16 | 3.7 | 389 | 89.4 | 30 | 6.9 |
| coworkers | 16 | 3.7 | 391 | 89.9 | 28 | 6.4 |

Table 29. Fellows' assessments of professional development problems encountered on return home.

| | Fellows describing problem as | | | | | | | | |
|--|-------------------------------|------|-------|---------|-------------|-----|--|--|--|
| | Ser | ious | Minor | or none | No response | | | | |
| Problem area | N | % | N | % | N | % | | | |
| Opportunities to attend professional meetings abroad | 246 | 56.6 | 157 | 36.1 | 32 | 7.4 | | | |
| Opportunities for further training | 180 | 41.4 | 221 | 50.8 | 34 | 7.8 | | | |
| Funds for research | 180 | 41.4 | 218 | 50.1 | 37 | 8.5 | | | |
| Availability of books and journals | 169 | 38.9 | 237 | 54.5 | 29 | 6.7 | | | |
| Opportunities to attend in-country professional meetings | 154 | 35.4 | 249 | 57.2 | 32 | 7.4 | | | |

Besides responding to individual items, the fellows were asked to summarize their experiences in getting relocated and reestablished. Of those responding, 11% said they encountered major difficulties, 41.5% minor difficulties, and 47.7% few or no difficulties.

Differences between the more recent and the earlier fellows were few in terms of major difficulties encountered on return home (see table 30). A larger share of earlier fellows reported few or no difficulties.

Table 30. Comparison of difficulties encountered by earlier and more recent fellows on return home.

| | | completion e 1975 | | y abroad -1985 |
|---------------------------------------|----------|----------------------|----------|-------------------|
| Level of difficulties | N | % | N N | % |
| Major difficulties Minor difficulties | 18 64 | 9.7 34.4 | 24 99 | 11.5 47.6 |
| Few or no difficulties | 104 | 55.9 | 85 | 40.9 |
| TOTAL | 186 | | 208 | |

Respondents were asked to compare the problems they encountered on their return with those that young people in a similar situation today would face (see table 31). The most striking difference is the respondents' perception that today's returnees face a more difficult employment situation than they did: Finding an appropriate job was not the problem for them that they believe it would be for young

Table 31. Fellows' perceptions of changes in problems facing fellows on return home.

| | Respondents of as one of the For themselves | | three most | |
|--|---|------|------------|------|
| Problem area | N | % | <u> </u> | % |
| Opportunities for professional travel abroad | 249 | 57.2 | 121 | 27.8 |
| Opportunities for additional training | 180 | 41.4 | 83 | 19.1 |
| Funding for research | 178 | 41.0 | 160 | 36.8 |
| Opportunities to attend in-country professional meetings | 167 | 38.5 | 42 | 9.7 |
| Equipment and supplies | 141 | 32.3 | 116 | 26.7 |
| Economic rewards | 112 | 25.8 | 225 | 51.7 |
| Support for job- related travel | 85 | 19.5 | 35 | 8.0 |
| Heavy work load | 75 | 17.2 | 88 | 20.2 |
| Local outlets for research publication | 67 | 15.3 | 23 | 5.3 |
| Finding an appropriate job | 26 | 5.9 | 139 | 32.0 |
| Social status of professional work | 18 | 4.1 | 33 | 7.6 |
| Acceptance by colleagues and superiors | 16 | 3.7 | 24 | 5.5 |

social scientists returning today from study abroad. The need for qualified staff continues, but thanks to the kind of training programs in which they participated and the building of local training capacity, it no longer has the urgency it once did.

Lack of equipment and supplies, inadequate research funding, heavy work loads, and few opportunities for professional travel abroad appear to be continuing problems. The fellows perceive that opportunities for additional training have grown but still are deficient.

How much contact do former fellows have with their peers?

One of the essential factors in maintaining professional capacity in the social sciences is contact with a peer group. Nearly all of the respondents report occasional or frequent contact with faculty members in their fields in other countries — both third world and industrialized countries (see table 32).

Table 32. Fellows' assessments of opportunities for contact with professional peers (N=435).

| | Frequency of contact | | | | | | |
|--|----------------------|------------|-------|-------------|-----|-----------------------|--|
| Peer group | Fred | juent % | Occa: | sional % | | er or esponse % | |
| Faculty members at other universities in home country | 195 | 44.8 | 184 | 42.3 | 56 | 12.9 | |
| Faculty members at other universities in Asia | 40 | 9.2 | 244 | 56.1 | 151 | 34.7 | |
| Professors at university of overseas study | 66 | 15.2 | 265 | 60.9 | 104 | 24.0 | |
| Professors at other univer- sities in developed countries | 31 | 7.1 | 258 | 59.3 | 146 | 33.6 | |
| Government personnel in country or region | 209 | 48.0 | 165 | 37.9 | 61 | 14.0 | |
| Professional personnel in international agencies | 76 | 17.5 | 260 | 59.8 | 99 | 22.8 | |

Membership in scientific and professional societies is one device commonly used to help widely scattered professionals keep up with developments in their field. Society membership is difficult to obtain for men and women in the third world because it is expensive and salaries in the third world often are low. In addition, in any country where foreign exchange is a problem, membership in international scholarly bodies is one of the first casualties. In spite of that, nearly two-thirds of the returned fellows (64.8%) belong to such organizations.

Personal acquaintanceships dating from the period of overseas study do not necessarily contribute to a fellow's maintenance of professional capacity (see table 33). They may, however, offer modest protection from insularity or provincialism. At least two-thirds of the fellows in this study continued to have contact with staff members of the agencies that funded their work or with fellow students, local families, and other friends they met in the communities where they studied.

Table 33. Fellows' assessments of the frequency of continuing contact with personal acquaintances they met during study abroad (N=435).

| | Frequency of contact | | | | | | | |
|--|----------------------|------------|-------|-------------|-----|------------------|--|--|
| Personal acquaintances | Free | quent % | Occa. | sional % | | er or esponse | | |
| Friends and families in the community | 60 | 13.8 | 207 | 47.6 | 168 | 38.6 | | |
| Staff members of agency that funded fellowship | 38 | 8.7 | 255 | 58.6 | 142 | 32.6 | | |
| Other students at university | 34 | 7.8 | 250 | 57.5 | 151 | 34.7 | | |

What help have former fellows received in maintaining and expanding their professional competence?

A thread that runs through almost all responses is the concern of returned fellows for ways to maintain and expand their professional competence. The earlier fellows, in particular, often returned to situations in which they had few colleagues of similar background and interest, not much access to recent professional publications, and limited opportunities to travel and meet with social scientists elsewhere. They reported that their needs were recognized in a variety of ways and that they received help from various sources in keeping abreast of their field during the critical first 4 or 5 years after their return (see table 34).

The second secon

Table 34. Fellows' sources of help in maintaining professional competence in the years immediately after return home.

| Area in which | Help needed but not obtained | | Helped by employer | | Helped by other local source | | Helped by external agency | |
|---|------------------------------------|------|--------------------|------|------------------------------|-----|---------------------------|------|
| fellow needed help | N | % | N | % | N | % | N | % |
| Getting funding to begin research | 53 | 16.4 | 185 | 56.7 | 19 | 5.9 | 68 | 20.0 |
| Organizing workshops or seminars | 62 | 20.5 | 165 | 54.5 | 13 | 4.3 | 63 | 20.7 |
| Attending profes- sional meetings | 98 | 27.4 | 151 | 42.2 | 8 | 2.2 | 101 | 28.2 |
| Consulting in professional field | 83 | 30.5 | 113 | 41.5 | 22 | 8.1 | 54 | 19.9 |
| Getting information on developments in professional field | 95 | 32.1 | 84 | 28.3 | 11 | 3.7 | 106 | 35.9 |

Note: Individuals who did not respond to a question were excluded from the total and percentage calculations.

The major source of help was their own employing agency or institution. This was especially true in the areas of getting started in research, attending in-country conferences, and organizing workshops and seminars. International organizations, including the agencies that funded their study abroad, have played a fairly active role in helping them attend professional conferences and get information on new developments in their disciplines.

The large figure in the column help needed but not obtained tells only part of the story. Others who listed sources from whom they received help did not say whether their needs were fully or even adequately met. Answers to other questions make it clear that the need is great, even today, for better ways to help returned fellows maintain and build their professional competence (see table 35).

What continuing role did fellows see for donors?

In terms of the advice this study might give to international donor agencies, the question of unmet needs might be approached in another way. Table 35 lists fellows' unmet needs and categorizes them according to whether returned fellows believe they do or do not offer a challenge for donor-agency assistance. For example, many fellows said

their salaries were not satisfactory but they do not see this as a problem amenable to outside help. They saw a much larger role for the outsider in supporting research and offering individual opportunities for professional development.

Table 35. Fellows' needs for help of external donors in meeting critical professional needs.

| Factor in professional development | respondents | Of those terming it important, percentage dissatisfied with provisions for it at home institution (B) | Index of unmet need (AxB/100) | Percentage of all respondents who see a role for outside agencies in meeting this need |
|------------------------------------|-------------|---|-------------------------------|--|
| Research funding | 70.3 | 75.7 | 53.22 | 34.6 |
| Professional meetings abroad | 59.5 | 64.5 | 38.38 | 33.0 |
| Books and journals | 72.8 | 77.1 | 56.13 | 25.2 |
| Postdoctoral training | 48.5 | 58.8 | 28.52 | 23.1 |
| Other kinds of training | 48.3 | 57.4 | 27.72 | 16.5 |
| Visiting professors | 36.6 | 42.3 | 15.48 | 15.6 |
| Professional meetings | | | | |
| in home country | 48.5 | 54.5 | 26.43 | 12.6 |
| Equipment and supplies | 36.2 | 46.2 | 16.72 | 8.0 |
| Access to computers | 49.2 | 54.7 | 26.91 | 7.8 |
| Institutional support for research | 60.0 | 65.7 | 39.42 | 5.9 |
| Local opportunities | | | | |
| to publish | 38.0 | 39.0 | 14.82 | 3.4 |
| Salary | 63.4 | 68.6 | 43.49 | 1.8 |
| Social status of profession | 30.9 | 36.8 | 11.37 | 0.2 |
| broression | 30.9 | 30.0 | 11.3/ | 0.2 |
| Work load | 40.5 | 46.7 | 18.91 | 0.0 |

HOW USAID-SUPPORTED FELLOWS COMPARE

The framework of this inquiry offered an opportunity for a separate study of fellows who were supported in two Asian countries by the U.S. Agency for International Development (USAID).

The initial study reached only the foundation-supported fellows. In countries receiving U.S. technical assistance, however, USAID also was a major contributor to support of postbaccalaureate social science training. USAID indicated interest in a parallel survey of its former social science trainees from two countries (India and Indonesia), so questionnaires were sent to them. Because the response rate for USAID fellows was much lower than for the other groups (29.5% compared to 51.8%), the responses are tabulated separately.

USAID's programs differ significantly from those of the foundations. Except for its staff of in-country nationals, USAID periodically reassigns its personnel. Thus, the person who initiates a USAID program may be on the other side of the world by the time that program grows and matures. The foundations do not generally have such systematic staff rotation. With small programs and longer periods of staff assignment to a particular country, they presumably have a better opportunity to maintain ties with fellows, their home institutions, and the universities at which they studied abroad.

USAID's programs have been part of a regular governmental technical assistance effort that is supported by tax money and subject to review directly by congress, the president, and ultimately, if only indirectly, by the nation's voters. The four foundations, in contrast, have made a conscientious effort not to be part of any nation's foreign policy. Their programs and allocations of resources are affected by public opinion but are not answerable to it.

One consequence is that USAID programs have generally had specific, measurable goals. USAID fellows were more likely to be selected and trained to take specific kinds of employment in institutions to which they definitely planned to return. USAID has phased down or terminated its help when, in its view, the economy of a recipient country has made such assistance no longer necessary. Foundations have usually enjoyed the luxury of greater flexibility. In the development of human capital they were under less pressure to target each program to the staffing of particular institutions in the recipient countries. (Often, of course, the foundations were also explicitly involved in institution building. In those cases, fellowship support was more directly targeted.)

USAID missions in India and Indonesia expressed interest in joining in this study, and both had reasonably good mailing lists for their former fellows. All former USAID social science fellows from India received questionnaires. For Indonesia, the USAID numbers were so large that questionnaires went only to a random sample representing 50% of the total.

In all of the comparisons that follow, the data for USAID fellows from India and Indonesia are compared with those for foundation fellows from those two countries only.

For India, the foundation study produced 69 completed questionnaires from a mailing to 158 former fellows. The USAID study brought in 38 completed questionnaires from a mailing of 102. For Indonesia, the foundation study produced 68 returns from a mailing of 103. The USAID study yielded 128 returns from a mailing of 460.

Rates of return from India were not greatly different for foundation and USAID fellows (see table 36). For Indonesia, the foundation fellows were much more responsive than those supported by USAID (66% compared to 27.8%).

Table 36. Rate of USAID fellows' response to questionnaire.

| Country | Questionnaires delivered | Questionnaires returned | Rate of response |
|----------------|-----------------------------|----------------------------|---------------------|
| India | 102 | 38 | 37.3 |
| Indonesia | 460 | 128 | 27.8 |
| Both countries | 562 | 116 | 29.5 |

Despite some small differences in what the foundation and USAID fellows had to say about their overseas study experiences, the degree of similarity in views was remarkable. Independently, the two groups identified many of the same strengths and weaknesses in their programs; for example, results for both demonstrated how important competence in language is to satisfaction with overseas study. Other comments were equally reinforcing.

Age, Background, Sex, and Field of Study

Respondents from India were, on the average, older than those from Indonesia. The distribution of ages reflects the fact that the foundations continued their programs in India after USAID had substantially phased down its assistance.

USAID and foundation fellowship programs had similar success in extending support to students of rural background. Nearly half of the fellows in both groups came from rural areas or communities of less than 20,000 people.

Women made up a small minority of both fellowship groups -- the foundation group was 13% women and the USAID group was 11.6% women. Some improvement occurred in the later years for USAID as well as for the foundations.

Fields of study for the two groups reflect USAID's special interest in preparing people for administrative roles and the somewhat greater emphasis on university teaching and research in the foundation programs.

About two-thirds of all foundation students majored in economics or sociology compared to 39.2% of those in the USAID program (see table 37). Business administration and political science or public administration were more popular for the USAID group (20.6% compared to 9.5%).

Brain Drain

The USAID fellows were as likely as the foundation fellows to return to their own countries to live and work, and neither group lent much credence to the contention that overseas study produces a brain drain. Admittedly, the responses to a mail questionnaire are likely to underestimate numbers of persons working abroad, but 100% of the USAID respondents and 93.4% of the foundation group reported being currently employed in their native lands.

As might be expected, USAID fellows were more likely than foundation fellows to find employment in governmental administrative or policy agencies on return from study abroad (41% compared to 11.7%). The foundation group gravitated more toward employment in universities or research institutes (82.5% compared to 54.3%).

Earlier in this report, the success of the foundation fellows was evidenced by a list of some of the responsible positions they now hold in their home countries. A similarly impressive listing could be made for the USAID group. The USAID fellows are more heavily represented in government (division leadership in four major Indonesian ministries, for example) and in business (chief executive of a major Indian textile firm, to give another example).

Considerably fewer of the USAID fellows entered university work, but many of those who did have also moved to important leadership posts. Their pattern of teaching contributions is like that of their foundation-supported colleagues.

A large majority of the fellows in both groups have engaged in field research since their return, but only about half as many of those supported by USAID described themselves as often publishing books or articles reporting their findings (see table 38).

Table 37. Distribution of fellows by discipline -- India and Indonesia.

| | | | fore 70 | - | 76 or ter | | tal |
|---|---------------------|----------|------------|-----------|--------------|------------|------------|
| | Sponsor | N | % | N | % | N | % |
| Economics | Foundation | 27 | 48.2 | 40 | 49.4 | 67 | 48.9 |
| | USAID | 12 | 25.5 | 38 | 33.3 | 50 | 31.6 |
| Sociology | Foundation | 8 | 14.3 | 1 | 19.8 | 24 | 17.5 |
| | USAID | 1 | 2.1 | 11 | 9.7 | 12 | 7.6 |
| Education | Foundation | 2 | 3.6 | 5 | 6.2 | 7 | 5.1 |
| | USAID | 10 | 21.3 | 22 | 19.3 | 32 | 20.3 |
| Business | Foundation | 7 | 12.5 | 3 | 3.7 | 10 | 7.3 |
| administration | USAID | 8 | 17.0 | 3 | 2.6 | 11 | 7.0 |
| Political science and public administration | Foundation | 2 | 3.6 | 1 | 1.2 | 3 | 2.2 |
| | USAID | 6 | 12.8 | 15 | 13.2 | 21 | 13.3 |
| Rural development | Foundation USAID | 2 0 | 3.6 | 3 4 | 3.7 3.5 | 5 4 | 3.6 2.5 |
| Anthropology . | Foundation USAID | 1 0 | 1.2 | 0 2 | - 1.8 | 1 2 | 0.7 1.3 |
| Communication | Foundation | 1 | 1.2 | 2 | 2.5 | 3 | 2.2 |
| | USAID | 3 | 6.4 | 1 | 0.9 | 4 | 2.5 |
| Home economics | Foundation USAID | 2 1 | 3.6 2.1 | 1 2 | 1.2 1.8 | 3 3 | 2.2 1.9 |
|)ther | Foundation | 4 | 7.1 | 10 | 12.3 | 14 | 10.2 |
| | USAID | 6 | 12.8 | 13 | 11.4 | 19 | 12.0 |
| [otal | Foundation USAID | 47 47 | | 81 111 | | 137 158 | |

Overseas Training

Both groups agreed that the skills and knowledge they acquired abroad were greatly useful. At least half of each group described the experience as extremely valuable for their work.

Of those with managerial responsibilities in their present work, 68.2% of the USAID fellows but only 38.1% of the foundation group described

Table 38. Fellows' research and other professional activities -- India and Indonesia.

| | | F | requency of | activi | ty |
|--|------------|-------|-------------|--------|----------------|
| Activity | Sponsor | Often | Sometimes | Never | No response |
| Research activities | | | | | |
| Participated in research requiring field data collection | Foundation | 57.7 | 29.2 | 6.6 | 6.6 |
| | USAID | 29.5 | 53.0 | 10.2 | 7.2 |
| Directed research for government or institution | Foundation | 49.6 | 32.1 | 10.9 | 7.3 |
| | USAID | 27.1 | 41.0 | 23.5 | 8.4 |
| Submitted proposals for research funding | Foundation | 43.1 | 44.5 | 5.1 | 7.3 |
| | USAID | 21.1 | 52.4 | 18.1 | 8.4 |
| Other professional contributions | | | | | |
| Presented papers at professional meetings | Foundation | 37.2 | 53.3 | 2.9 | 6.6 |
| | USAID | 21.1 | 49.4 | 21.1 | 7.8 |
| Planned workshops | Foundation | 25.5 | 54.0 | 12.4 | 13.5 |
| for colleagues | USAID | 25.9 | 46.4 | 22.9 | 4.8 |
| Published articles in professional journals | Foundation | 27.0 | 51.1 | 16.1 | 5.8 |
| | USAID | 13.9 | 39.2 | 38.6 | 8.4 |
| Published material in scholarly books | Foundation | 16.1 | 48.9 | 25.5 | 9.5 |
| | USAID | 9.6 | 40.4 | 38.6 | 11.4 |
| Refereed articles for professional journals | Foundation | 15.3 | 40.9 | 34.3 | 9.5 |
| | USAID | 11.4 | 22.9 | 54.8 | 10.8 |
| Wrote notes or book | Foundation | 9.5 | 44.5 | 38.7 | 7.3 |
| reviews for journals | USAID | 8.4 | 25.3 | 54.8 | 11.4 |

Note: Figures are percentages of respondents.

their study abroad as <u>very useful</u> or <u>useful</u> for that purpose. Recognizing that many of both groups would move up to leadership posts, in retrospect it appears that some provision for special training in administration and management would have been useful for almost all of the fellows.

There were no important intergroup differences in satisfaction with basic choices about the overseas study program or the services that accompanied it.

A majority in each group endorsed the selection of fellows through interaction between home country personnel and the donor agency. USAID fellows were noticeably less willing to see the donor agency have complete control and correspondingly more favorably to selection entirely by the home country (see table 39).

Table 39. Fellows' recommendations about procedures for selecting new fellows -- India and Indonesia.

| | Former fellows agreeing with recommendation | | | | | |
|---|---|-----|-------------|--|--|--|
| Recommendation | Sponsor | N | - <u></u> % | | | |
| Fellows should be | | | | | | |
| selected entirely by | Foundation | 26 | 19.3 | | | |
| home-country personnel | USAID | 49 | 29.5 | | | |
| Fellows should be | | | | | | |
| selected entirely by | Foundation | 24 | 17.7 | | | |
| donor agency | USAID | 15 | 9.0 | | | |
| Fellows ∙should be selected by donor | | | | | | |
| after local nomina- | Foundation | 71 | 52.6 | | | |
| tions and consultation | USAID | 91 | 54.8 | | | |
| Other or no response | Foundation | 14 | 10.4 | | | |
| | USAID | 11 | 6.7 | | | |
| TOTAL | Foundation | 135 | | | | |
| | USAID | 166 | | | | |

In the selection of fellows, both groups were strongly in support of giving greatest weight to academic merit and potential as a staff member. USAID fellows were more receptive, however, to probability of being influential as a criterion.

The interest of foundation fellows in carrying on dissertation research in their home countries has previously been mentioned. USAID fellows felt even more strongly about the value of home-country dissertation research (see table 40).

USAID fellows echoed almost exactly the sentiments of the foundation fellows as to help from the donor agency on personal problems (travel, health, academic performance, and family concerns) during their time abroad. In general, they evaluated highly the help they received. USAID fellows took a more favorable view of the help they received on family matters and were much less enthusiastic about assistance on health concerns.

Like the foundation fellows, those from USAID who said they received adequate help when they needed it were much more likely to describe their program as satisfactory or very satisfactory. Those with most frequent contact with their home institutions were also somewhat more likely to report a satisfactory experience in overseas study.

Table 40. Fellows' assessments of alternatives for combining graduate course work and dissertation research -- India and Indonesia.

| Practice | Sponsor | | ws who ienced practice % | Fellows who considered this practice more useful and practical than the alternatives | | |
|--|---------------------|--------|-----------------------------------|--|------|--|
| Course work and research in home country | Foundation USAID | 8 6 | 8.2 | 5 12 | 4.1 | |
| Course work in home country, research abroad | Foundation | 1 | 1.0 | 6 | 5.0 | |
| | USAID | 1 | 1.0 | 7 | 4.4 | |
| Course work abroad, research in home country | Foundation | 27 | 27.8 | 56 | 46.3 | |
| | USAID | 31 | 31.6 | 99 | 62.7 | |
| Course work and research abroad | Foundation | 61 | 62.9 | 54 | 44.6 | |
| | USAID | 60 | 61.2 | 40 | 25.3 | |

Perceived level of preparation for advanced study did not have an overwhelming effect on the degree of satisfaction the fellows reported with their programs. Those who felt least well-prepared were only a little less likely to report a satisfactory experience.

For USAID students, as for the the foundation group, language problems colored the experience of overseas study more than any other single factor. Even in India, where English had been the language of university study, at least a quarter of the USAID students reported difficulty in writing examinations and participating in class discussions. Those from Indonesia, getting their first experience in an English-language classroom, reported even more difficulty. This obviously influenced their views of their experiences abroad. Regardless of source of funding, Indonesians who reported serious language problems were the group least pleased with their overseas program. Language deficiencies were so visibly the source of academic and other difficulties that the message about the importance of adequate language preparation could not be stronger or more obvious.

The answers of respondents as to host department involvement in third world issues suggest two conclusions. First, both the USAID and foundation fellows had a strong likelihood of being placed with an adviser who had worked in a third world country and in a department that had other graduate students from developing countries. Second, that likelihood has improved over the years. The percentage of recent fellows (since 1975) describing their host department as having great involvement in third world affairs is still low (23.8% for foundation fellows and 27.4% for USAID fellows) but more than double what it was in the early years. About three-quarters of the later fellows were being placed in departments with five or more third world graduate students, up from about 50% at an earlier time.

Problems of Reentry

It seemed reasonable to inquire whether the foundation and USAID fellows encountered similar problems on their return from study abroad. Three categories of problems were examined: personal, employment, and professional.

Again the similarity between responses of USAID and foundation fellows is remarkable. Even the problems mentioned most often — financial settling in and logistical arrangements — were described as <u>serious</u> by no more than a quarter of the respondents in either group. Other personal problems (adjustments to family obligations, tempo and style of life, political situation, and local cultural norms) were even less troublesome for most of the returnees.

Employment-related problems gave them considerably more reason for concern. Lack of equipment, inadequate economic rewards, and lack of institutional interest in research were viewed as serious problems for more than a quarter of the group.

It was in professional development that both groups described the greatest problems and deficiencies. The USAID fellows, even more than the foundation group, expressed concern about the unavailability of professional books and journals, opportunities to attend in-country professional meetings, and funds for research (see table 41). More

than half of the USAID group saw all of these deficiencies as serious. In both groups, nearly two-thirds reported a need to attend professional meetings abroad and a serious lack of opportunities to do so.

Recent fellows reported somewhat greater problems of readjustment than earlier fellows did, and USAID fellows consistently reported more difficulty than did those supported by foundation funding. Major problems were reported by only 8.9% of the foundation group and 14.7% of the USAID group returning before 1975. The comparable figures for fellows returning between 1975 and 1985 were 10.5% and 21.7%.

Table 41. Fellows' assessments of professional development problems encountered on return home -- India and Indonesia.

| | | | | ing problem as | | | |
|--|------------|-----|-------------|----------------|---------|-------|-------------|
| Problem area | Sponsor | N | ious % | Minor | or none | No re | sponse % |
| Opportunities to attend professional meetings abroad | Foundation | 89 | 65.0 | 35 | 25.5 | 13 | 9.5 |
| | USAID | 106 | 63.9 | 52 | 31.4 | 8 | 4.8 |
| Opportunities for further training | Foundation | 54 | 39.4 | 67 | 48.9 | 16 | 11.7 |
| | USAID | 68 | 41.0 | 89 | 53.6 | 9 | 5.4 |
| Funds for research | Foundation | 67 | 48.9 | 55 | 40.2 | 15 | 10.9 |
| | USAID | 91 | 54.8 | 60 | 36.2 | 15 | 9.0 |
| Availability of books and journals | Foundation | 56 | 40.9 | 68 | 49.6 | 13 | 9.5 |
| | USAID | 91 | 54.8 | 70 | 42.2 | 5 | 3.0 |
| Opportunities to attend in-country professional meetings | Foundation | 56 | 40.9 | 68 | 49.6 | 13 | 9.5 |
| | USAID | 83 | 50.0 | 74 | 40.6 | 9 | 5.4 |

The foundation and USAID fellows agreed that the more recent fellows have better opportunities for additional training, research funding, and participation in professional meetings at home and abroad. On the other hand, they face greater problems in finding suitable jobs, getting adequate pay, and having reasonable work loads, the respondents said.

USAID fellows expressed more dissatisfaction with the level of help they received in maintaining their professional competence in the years immediately following their return (see table 42). They reported receiving less help from external agencies, including the agencies that funded their fellowships, which suggests that the foundations had better follow-up programs than USAID to support fellows on their return.

In summary, however, although USAID fellows responded differently in several predictable ways because of differences in organizing and handling their programs, none of the conclusions from the full survey of foundation fellows are invalidated or thrown in doubt when the responses from USAID fellows are added. The recommendations in the concluding section of this report reflect the needs and problems expressed by both groups.

Table 42. Fellows' sources of help in maintaining professional competence in the years immediately after return home -- India and Indonesia.

| Area in which fellow needed help | Sponsor | Help needed but not obtained | Helped by employer | Helped by other local source | Helped by external agency |
|---|---------------------|---------------------------------------|--------------------------|---------------------------------------|------------------------------------|
| Getting funding | Foundation | 11.7 | 40.9 | 0.7 | 13.1 |
| to begin research | USAID | 30.7 | 4.3 | 5.4 | |
| Organizing workshops or seminars | Foundation | 13.9 | 42.3 | 2.2 | 11.0 |
| | USAID | 23.5 | 42.2 | 3.0 | 9.6 |
| Attending professional meetings | Foundation | 18.2 | 43.1 | 1.5 | 17.5 |
| | USAID | 38.6 | 36.1 | 4.2 | 9.6 |
| Consulting in professional field | Foundation | 18.2 | 31.4 | 5.1 | 9.5 |
| | USAID | 27.7 | 27.1 | 3.0 | 3.0 |
| Getting information on developments in professional field | Foundation USAID | 21.9 33.7 | 16.8 19.3 | 0.7 | 25.5 27.7 |

Note: Figures are percentages.

THE DEMAND SIDE: EMPLOYERS' VIEWS

The data collected from former USAID- and foundation-supported fellows was supplemented by personal interviews with the employers of social scientists in Asia. These employers included 33 university leaders,

governmental administrators, and private-sector executives in India, Indonesia, Thailand, and the Philippines. The interviews probed the value of social scientists in developing countries: Are social scientists trained abroad useful to the employing institutions? What steps should be taken to build and maintain social science competence in third world countries?

The employers agreed that talented professionals are needed to deal with the economic and social issues of development. Leaders of universities and other training institutions were especially aware of the need for social scientists and of the institutions' responsibility for maintaining strong social science departments to help develop professional capacity.

Those interviewed generally agreed that, when fellowship programs began 30 years ago, there was some skepticism about the usefulness of social science research in developing countries. However, in the last three decades employers have realized that Asian social scientists are important contributors to understanding and resolving problems of development.

An interview with Raj Krishna brought out the importance to him of the emphasis placed on empirical data in his graduate work at the University of Chicago in the fifties: "I came back to India with a radical approach to problem solving. Logic is a necessary but not a sufficient condition for problem solving. You also need empirical evidence."

Many others who studied abroad have a similar appreciation of the research skills and insights they acquired. Most of the former fellows who responded to the questionnaire said learning to use the tools of applied research was one of the major benefits of their training.

Many of the employers interviewed acknowledged that it has taken time for applied social science research to be accepted and, meanwhile, some talented social scientists have immigrated to developed countries. Again Raj Krishna's response was typical: "Brain drain occurs when there is no demand for your skills. For the first 10 years after I returned to India, I could get no support for my research program. It was the Ford and Rockefeller support that allowed me to continue my work. Otherwise I, too, might have left."

The employers agreed that the status of social science is rising. As one pointed out, two decades ago no social scientist was in a senior policy-making position, but this has changed. The policy-makers who were interviewed valued social scientists' analysis of economic and social problems; they acknowledged that social scientists are needed to carry out empirical research on which sound, practical policy recommendations can be based. University and academic leaders reported continued demand from the public and private sectors for professionals who help their employers understand human behavior and economic and social issues.

One matter of concern to employers was the need for greater interaction between rural social scientists and agricultural production scientists. Many of those interviewed said that universities in the third world should play a more active role in coordinating the research of the two groups. Some said more should be done to foster working relationships between social and production scientists during overseas training. The consensus of those interviewed was that students in production-related agricultural disciplines should have to take some rural social science courses, and rural social science students should have to take some production-related courses.

Past Performance and Future Needs

All of the employers interviewed were asked to comment on the value of donors' programs for building social science capacity in Asia that have been undertaken during the past 30 years. Although they identified some deficiencies in specific programs, they agreed unanimously that the programs have been effective and beneficial to third world institutions and countries. Most said no other approach would have been as satisfactory in providing the social science training needed to confront third world issues. Some senior people said they thought foundation programs were particularly important because they involved long-term commitments. Dioscuro Umali, who was for some time the dean of agriculture at the University of the Philippines at Los Baños, said, "Only long-term commitment creates a critical mass, which is a must for developing departments."

The employers were concerned about getting the external support necessary for maintaining social science teaching and research capacity in their institutions. University administrators and government officials said they find it difficult to provide for their social scientists to maintain contacts with colleagues in other countries -- funds are needed to allow research to be performed by Asian social scientists with their peers (in their own countries, other Asian countries, and the West) on problems of mutual concern.

Employers emphasized the importance of social scientists' interacting with their peers in the United States. Senior Asian officials are greatly concerned with the decline in the number of U.S. social scientists carrying out research in Asia; they deplore the reductions in programs for younger U.S. social scientists to travel abroad to perform thesis or postdoctoral work. Many Asian scholars formed ties early in their careers with visiting Americans, which boosted their ties to the larger scholarly community and have continued throughout their lives. As fewer young U.S. professionals go to Asia, ties with younger Asians are less likely to develop -- a disadvantage to both groups. Many of those interviewed in government, the private sector, and university administration said maintaining social science capacity in their institutions is a continuing process; new ways to deal with development problems are constantly being created and tested.

Problems facing policy-makers change, and social scientists must continue to grow so they can deal with new issues. Government policy-

makers said they thought social science training should give more attention to the political constraints to development; for example, "getting the prices right" is a key factor in increasing agricultural output, but policy-makers would like social scientists to help them find incentives for farmers that do not cause tensions and inequities among urban consumers.

University leaders need funding to provide continuous opportunities for postdoctoral training. They want long-term support so they can encourage their staffs to take full advantage of opportunities for continued professional development.

Needed Innovations

University, government, and private-sector employers agreed that closer working relationships between universities and other sectors are needed. Many suggested that universities should provide more inservice training to members of the other sectors, as the Indian Institute of Management (IIM) in Ahmedadad has done: It conducts workshops for government staff members on topics ranging from specific problems to general management techniques. It also encourages government officials and private-sector leaders to send younger staff members to IIM for advanced degrees.

The employers expressed growing concern about the need to recognize and understand the complementary roles of the public and private sectors in development. Greater professional interaction between individuals working in the two sectors is badly needed. In this area, too, universities can help and IIM provides a model. Interaction is being developed by innovative individuals in the private sector. Lakshmi Jain, who pioneered in the development of India's handicraft industry, is a consultant to groups in both sectors and heads the Institutional Development Service. Jain recruits staff members from public and private organizations for one year. They spend this time working together on social-development issues. He provides in-service training, and he fosters interaction between technologists and social scientists putting them to work as a team on problems where the skills of both groups are needed.

Another issue that must be addressed is the role of universities and other organizations in strengthening regional and local training institutions. Most of those interviewed said they did not think universities were doing as much as they could to maintain and upgrade institutions that train social scientists. Senior university people agreed that they had greater opportunities to advance than do today's young professionals. Members of the first generation of well-trained social scientists said they found rewarding employment when they returned from study abroad without much difficulty. A dean at Kasetsart University in Thailand said today's returning fellows have less chance to use their talents and skills effectively; he pointed out that two-thirds of Thailand's senior positions in the social sciences are currently held by people 45 and older. Although most of

those interviewed are interested in helping young professionals obtain better positions, they are not certain how they can best be of assistance.

Private-sector employers said that social scientists have indispensable research capacities, but more attention should be paid to developing their management and organizational skills. Private-sector leaders also said social scientists need a better understanding of technical fields. One Indian businessman said that his industry considers the ideal recruit "a good engineer with an MBA from the Indian Institute of Management."

Interviews with private-sector employers suggested that large companies are becoming increasingly aware of the impact of corporate policies on the poor. The same Indian businessman said there are practical as well as altruistic reasons for considering the poor when designing policy: "People have to have employment and income to buy our products."

Most of those interviewed foresee continued problems in generating enough funds locally to maintain institutions' social science capacity. Many said they hope outside donors will help alleviate this problem. In particular, money is needed for long-term research. Funding is available from government and private sources to deal with short-term problems; but funds are seldom available for solving problems that have long-term significance but no immediate monetary payoff. Funds for joint research, which would allow staff from several institutions to meet and work together, are especially needed. Funds also are needed to develop opportunities for greater interaction between social and production scientists and to allow social scientists to spend time at outstanding universities studying developments in the field.

Finally, senior officials said innovations are needed for maintaining institutional capacity and keeping individuals growing and working. Providing for international travel and the purchase of books and equipment will continue to be a problem, and these means of external contact are necessary if the social science fields are to progress. It would greatly benefit the universities if outside donor groups would help meet such needs for the next few years; university administrators are confident that more local funds will gradually become available.

HOW THE PROGRAMS MEASURED UP

A variety of factors must be considered in evaluating the success of a fellowship program. Most groups that support overseas graduate fellowships consider research to be at the heart of the training process. Well-trained social scientists build modern research concepts into teaching and apply them in analyzing policy. They do high-quality research that enters the mainstream of discussion, internationally as

well as nationally. They also are aware that development involves a complex interplay of factors and is fostered by a kind of teamwork that was uncommon even a couple of decades ago. One mark of successful training is sensitivity to the need for biological, physical, and social scientists to work together.

This study covered only a narrow range of the factors upon which success might be judged. It focused on the crucial criteria for social science teaching, research, and policy analysis in the home country. It relied most heavily on the respondents' evaluations of the quality and usefulness of their overseas training. Admittedly, their recollections may have been colored by sentiment or dimmed by time, but their responses were consistent enough to be useful.

However, according to the factors we measured, the fellowship effort has been remarkably successful. Contrary to some widely expressed fears, a large share of those who studied abroad have returned to their home countries to live and work. They have found their overseas experiences relevant and useful, and on their return many have given policy advice to leaders in government and the private sector and have been involved in implementing development policy. Many have also had an impact on academic institutions and curricula in their home countries and have helped to build the capacity to offer high-level university instruction in the social science fields.

This rapid development of indigenous capacity is impressive in many ways. Although Asian universities had a long and distinguished tradition, almost none offered instruction in or used contemporary social science based on theory that is tested empirically with data collected in the field. Today every Asian country has one or more universities with social science departments that meet these requirements. Traditional universities have built this capacity, and many younger institutions have strong programs: the Indian institutes of management, the Indian Agricultural Research Institute, and the new agriculturally based universities in Indonesia, Malaysia, India, Pakistan, and Thailand, to name only a few.

WHAT DONORS SHOULD DO NOW

Clearly the primary goals of overseas fellowship programs in the social sciences have been met. Are there still appropriate and necessary tasks that call for external assistance of the kind that supported this earlier effort? The overwhelming evidence is that there are.

The recommendations that follow are based on the responses of former fellows to the survey reported in this document, on interviews with university and government officials in Asia who have employed or could employ persons with social science competence, and on the authors' experience and observations in a number of Asian countries.

1. Well-established third world social scientists urgently need greater encouragement and material support for their research programs.

Almost every active social scientist responding to this study emphasized the lack of money for needed research. Social science invariably gets low priority when a nation allots its own scarce resources among development needs. Outside funding is essential if Asia's social scientists are to maintain their research skills and train a generation of successors.

The problem is not that social science is perceived as without value. The project-identification and project-review reports of World Bank teams and other international agencies show how dependent those agencies are on reliable, locally gathered socioeconomic data. Interviews with governmental policy leaders in Asia confirm this impression. They appreciate the hard facts and critical analyses contributed by social science, and they understand that research can give some protection against the formulation of unwise policies based on ideological or partisan political commitments.

It is surprising, therefore, that two-thirds of the respondents who said they consider research an important part of their work also said that inadequate institutional appreciation of the value of research is a problem for them.

These two sets of responses are hard to reconcile, and one explanation may be that the customary project approach has proved to be a particularly unsatisfactory way to fund social science research in resource-poor developing countries. What hard-headed policy leader can feel comfortable about diverting funds to social science research in preference to smaller-budget programs to build highways and irrigation structures, train teachers, or even breed higher-yielding cereals and tubers? The success of these endeavors may rest on the kind of insights a healthy social science community can produce, but the race for funding is nevertheless unequal.

At least modest support is needed for people rather than projects. Men and women who demonstrate research competence in their doctoral programs and subsequent work, who are teaching undergraduates and directing postbaccalaureate study, are not being given the tools to contribute as they might. They are well placed to judge what kind of research is needed and feasible. What they lack is adequate opportunity to use their judgment and training.

2. Donors should find ways to give experienced third world social scientists greater influence over their own research agendas.

Research priorities in any field represent a mix of the interests of the scientists and the various external agencies offering financial support. In the industrialized countries this has been a productive partnership because both sides have operated from positions of strength. Funding based on peer review has given the scientists in each discipline considerable power to guide the direction of research. Individuals have worked within a system that often permitted them to pursue a line of inquiry far beyond its original boundaries and time limits.

Scientists and scholars in developing countries have had much less freedom. Resources are scarce to begin with. The "peers" in peer review are likely to be scientists or, more often, administrators from developed countries. The mix of the research agenda is usually tilted sharply toward projects of short duration that have limited objectives and stress immediate applicability of results.

Able senior social scientists in developing countries have much more than that to offer. It is too easy to view the respondents to this survey as the students or fellows they once were rather than as the mature scholars they now are. Physically remote from any large group of colleagues with similar training, most have much broader individual responsibility for teaching and research than the average Western social scientist does. In their own institutions many receive and deserve the kind of respect that would be represented by a chair in a Western university.

This suggests that establishing a limited number of endowed chairs in selected third world universities would give an extraordinary stimulus to the social science fields. Appointments of this kind, externally funded, would not in most cases require salary support but should provide a generous allocation for professional activities. Support should be guaranteed for at least 5 years, and the appointees should have full freedom to make their own judgments about what activities would be most productive for them and for their institutions. Some would choose to expand their research skills and broaden their range of interests through postdoctoral study or visiting professorships; this could lead to worthwhile collaboration in teaching or research. Some would use funds to support research costs; buy supplies, equipment, books, and journals; or pay travel costs. Most would use some funding to attend international professional meetings.

The kind of persons selected for such professorships are well-qualified to decide for themselves how to make best use of such support without item-by-item competitions and reviews.

3. Donors should invest in linking the social scientists of Asia with world currents in their disciplines.

Social scientists in the developing countries of Asia fear that they are getting out of touch with their colleagues elsewhere and with advances in their fields.

A person who has had academic and research experience only in U.S. or European institutions may find it hard to appreciate the conditions

under which the men and women who responded to this survey carry out their work. Some are in countries where only one or two educational institutions are engaged in scholarly work in the social sciences. At best they have only a handful of persons with whom, day by day, they can exchange ideas in their fields. Usually they must choose between publishing their work in a language confined to one or two countries or writing for (and therefore choosing research topics adapted to) the scholarly journals of the industrialized world. Often the dilemma is one of being irrelevant at home because of the heroic efforts to remain active in a mainstream that is thousands of miles away, or remaining active on home-country projects that never come to the attention of and therefore never benefit from the scrutiny of a world circle of scholars.

The problem is solvable. By choosing to return to work in their home countries, the majority of fellows have made their commitment clear. In focusing on problems of their nations and regions, they are applying their social science skills in an arena where they have a comparative advantage. But former fellows emphasize again and again their need for better access to professional books and journals, travel to international professional meetings, postdoctoral fellowships, and other advanced-training opportunities. Giving them such access would remove a serious source of frustration, enrich the quality of their work, and give scholars in other countries, including the developing world, the benefit of their contributions.

4. Donors should continue a vigorous effort to help social scientists in neighboring countries or within a region benefit from exchange of information and ideas.

Most of the respondents in this study reported some continued contact with the institutions where they did their doctoral study but not much with other universities in the industrialized world. They described even more-frequent contact with colleagues in their own countries, although often that group did not provide the numbers or diversity to meet the needs of scholarly criticism, cooperation, and interaction.

Their least-frequent professional contacts have been with academics and scholars in their own field in neighboring countries. Here, surely, regular exchange has a great deal to offer. Yet almost everywhere intercountry travel is given a low priority for the allocation of institutional resources, and the younger and less-experienced social scientists, particularly, suffer at a key time in their careers.

Promoting increased professional contact within a region would cost little. While strengthening the competence of social scientists, it could also contribute to a more-effective intercountry approach to solving shared problems.

5. Donors and technical assistance agencies should continue to sponsor a modest program of tightly targeted conventional fellowships to send outstanding undergraduates abroad for graduate study.

Much of Asia can now provide its young people with good opportunities for postbaccalaureate study at home. No longer is overseas study essential for the preparation of competent, well-rounded professors, research directors, and policy planners.

There are other strong grounds, however, for continued support for fellowships abroad. In every country the forces of insularity and provincialism need to be recognized and combatted. Persons who study overseas are a channel through which their home countries get new ideas and new perspectives. (They are also a rich source of stimulation and a broadening force for the students and professors in the foreign universities that serve as their hosts.)

Donors should give particular attention to the need to capitalize on the growing numbers of women university graduates in the developing world. As women have increasingly gained access to secondary and university education, their availability as candidates for postgraduate study has increased. There has been a built-in lag, however, in their representation as full staff members at teaching, research, and policy institutions. A nation that expects to have more women in high-level educational and policy positions must make sure they now have the same overseas educational opportunities that previous generations of men have had.

Fellowships are also needed to diversify the economic and social composition of the group of young people who study outside the country. It would be unfortunate if overseas study opportunities were limited to the wealthy and well-born and those with political connections.

The third world countries, coping with generally limited financial resources and even more-limited access to foreign exchange, will continue to count on outside help to meet these needs.

The overwhelming impression from this study is that the fellowship programs of the Ford Foundation, Rockefeller Foundation, Agricultural Development Council, International Development Research Centre, and U.S. Agency for International Development were a wise and far-sighted investment. They have borne out the high expectations on which they were based. At the same time, they point to an unfinished agenda that could have an equally rewarding outcome.

APPENDIX 1

OVERVIEW OF RELATED STUDIES

During the past 10 years, donor-sponsored fellowship programs that train third world nationals in the social and physical sciences have been under increasing scrutiny. Interest in the programs has risen because the resources required to operate them have been increasing while the funds donors give human capital development have been decreasing. Organizers of programs that give third world citizens opportunities to earn advanced degrees in developed countries are now more concerned than ever about the impact and effectiveness of their programs. More and more, these administrators are supporting in-depth analyses of their training programs to help them allocate their limited funds more effectively.

Our research uncovered a number of training-program evaluations; however, many provided only historical overviews of the programs with which they were concerned. The criticisms and recommendations they offered usually were based only on the opinions of the authors. Difficulties of tracking former trainees and getting responses from them limited the number of evaluations based on the views and perceptions of the administrators or students who participated in the programs.

This review of previous work focuses on large-scale studies whose findings have general implications for existing and future training programs. It emphasizes studies that used the opinions of persons directly involved with the programs. Most of the studies that are included used questionnaires to gather data (with varying degrees of success).

Most human capital studies examine the programs of a particular organization or discipline; consequently, many of the results pertain only to those programs and are not of general interest. This review is concerned only with studies whose results have specific, substantial implications for training programs in general.

TRAINING AGRICULTURAL ECONOMISTS
FOR WORK IN INTERNATIONAL DEVELOPMENT
by Darrell F. Fienup and Harold M. Riley
June 1980

Fienup and Riley's 1980 study (sponsored by the American Agricultural Economics Association and funded by USAID) evaluated the training of students from less developed countries in graduate-level agricultural economics. A 14-page, 24-question survey was sent to 2,228 agricultural economics alumni. The response rate was 33.3%.

Fienup and Riley's study differed from most others in that it included students who were financed by their families or personal funds as well as those whose studies were supported by philanthropic and governmental organizations. As a result, most of the discussion and analysis was geared toward specific aspects of agricultural economic graduate training in the United States and not toward general issues related to donor funding of overseas training. Questions on the usefulness of particular coursework to the respondent's career were examined in detail by Fienup and Riley, but the findings in these areas pertained only to agricultural economics.

Some of the results of the study that have broader ramifications for human capital development in the third world are as follows:

Brain Drain

Fienup and Riley discovered that 83% of foreign students who earned either a master's or Ph.D. degree in agricultural economics from a U.S. university were currently employed in their home regions. The authors considered this figure quite high in comparison to other disciplines. They also determined that there is wide variation in this statistic among regions and countries. For example, respondents who earned degrees in the United States and were employed in their native regions in 1980 were as follows: Malaysia and Thailand, 92%; Latin America, 90%; Africa, 85%; Asia, 73%; Taiwan, 62%; South Korea, 60%; and India, 55%. Fienup and Riley also found that only 75% of those who earned doctorates stayed in their native regions, but 92% of those who earned master's degrees did so.

All of the figures cited above were compiled from voluntary responses to a mailed questionnaire. Therefore, the actual retention rates probably are lower than those represented by the responses because the questionnaire probably was returned by fewer addressees who no longer resided in their home countries.

Employment Patterns

Fienup and Riley discovered that an overwhelming majority of the students who earned degrees in the United States (73%) began their careers either with governments of less developed countries (40%) or third world universities (33%). The first jobs of the remaining 27% were mainly in the private sector of developing nations (11%) and in universities in industrialized countries (9%). International agencies, foundations, and governments of developed countries supplied the first jobs of the remaining 7%.

Other findings about employment patterns included

- Current-employment figures varied little from first-employment data.
- A slight trend away from governments of less developed countries and toward international agencies was indicated.

Those who earned doctorates tended to be employed by universities; those who earned master's degrees usually found employment with governments of less developed countries.

Language Problems

The study results indicated that one-third of developing-country students had difficulty with English while studying in the United States. In most cases, however, language problems were resolved during the student's first 6 months abroad. While 39% of the Asians and 34% of the Latin Americans responded that language was a major difficulty, only 6% of the Africans found lack of English skills to be a serious handicap to their graduate studies. The study did not investigate whether the students had greater difficulty with reading, writing, or speaking English.

Usefulness of U.S. Graduate Training

Of the respondents, 75% said their U.S. graduate training was extremely useful in their professional careers; 21% said their training was moderately useful. Students most often mentioned the following benefits from their experience in U.S. universities:

- increased research ability and problem-solving skills
- high status of U.S. degree in home country, which led to higher wages and more employment opportunities
- rewarding contact with students and professors

Factors that some respondents saw as disadvantages of study in the United States included

- long absence from home country (loss of career-aiding contacts)
- U.S. professors' lack of first-hand knowledge of developing countries

Most of those who responded to the questionnaire viewed their training in the United States as a highly useful and rewarding experience.

EVALUATION OF THE GENERAL PARTICIPANT TRAINING PROJECT (USAID) by Charles Hefferman 1980

In 1980 Charles Hefferman conducted a large-scale study for the Education and Human Resources Offices of USAID in Indonesia. Hefferman's goal was to examine the effectiveness of the General Participant Training Project in which many Indonesian citizens were sponsored by USAID for study in the United States and nearby Asian countries. The main data-gathering instrument used in the study was a 6-page, 18-question questionnaire distributed to all Indonesians whose studies abroad had been supported by USAID. The survey generated 652 completed questionnaires returned by 585 men and 67 women.

Hefferman examined the frequency with which the former fellows were promoted and the impact that studying abroad may have had on their career advancement. He reported that 81% of the respondents said they had been promoted since they returned from study abroad. Of those promoted, 88% said they felt their USAID-sponsored training had helped them acquire the promotion either directly or indirectly.

Hefferman found that about 51% of the former fellows reported some difficulties with life abroad. English proficiency was a problem for 15% during their overseas studies.

In general, the USAID General Participant Training Project was given high ratings by most of the respondents; 83% said they were satisfied with program arrangements. The two most common reasons given by the 15% who said they were not satisfied were

- placement at the "wrong" university
- too little money during study abroad

Other reasons for dissatisfaction included lack of contact with academic advisers and lack of contact with USAID program officers.

Most respondents said they were able to use what they learned abroad: 16% said they were able to use everything they learned in the host country; none of the 563 respondents indicated that what they learned abroad was useless in their current occupation.

Respondents also were asked about problems they had in using the skills and information they obtained during overseas study. The most frequently indicated problem (reported by 38% of the respondents) was lack of equipment, facilities, and other resources in Indonesia. The other major difficulty was that other staff members and coworkers did not have equal knowledge of key concepts in the former fellow's field, which made professional communication with them difficult.

IDRC TRAINING POLICY STUDY by The Office of the Vice-President, Planning February 1981

In 1981, the Office of the Vice-President, Planning, of the International Development Research Centre conducted a policy study to assess the training program sponsored by IDRC. Some of the issues examined in the study included IDRC's past role in supplying trained personnel for teaching and research in third world countries, the usefulness of some of IDRC's training policies, and the future demand for trained personnel in the countries with which IDRC has historically been associated.

Although much of the data used in the study was obtained from IDRC records and files, some use was made of questionnaires: Surveys were administered to 758 former trainees, 251 project leaders, and 191

trainee supervisors. The combined response rate was 47%, but the response rate from former trainees was 54%. The trainee survey consisted of 48 questions.

Despite the use of the questionnaire and the high response from former trainees, the results of the survey were not often mentioned in the text of the final report. The report consisted mainly of a summary of the disciplines and countries that IDRC emphasized in past training programs, a description of the functions and goals of administrative branches of IDRC, and general recommendations for future programs within the organization.

Questionnaire findings that were incorporated into the text of the report included the following:

Brain Drain

The IDRC study team strongly challenged the notion that brain drain is inevitable as a result of overseas study. In fact, about 97% of the former trainees returned to their countries of origin after their training abroad was complete. The authors attributed this high percentage to the method used to select trainees in most of IDRC's programs: Candidates usually were selected from research-project teams that had been created in the home country. Since members of such teams were likely to have had rewarding employment in their home countries before starting study abroad, they were more likely to return to their jobs after their training was complete.

IDRC's estimated retention rate of 97% is not strictly comparable to Fienup and Riley's reported rate of 83% because the IDRC study included some individuals who studied abroad for 6 months or less. Such individuals are less likely to remain in the host country after completing their study than those who have longer exposure to the developed country. More importantly, Fienup and Riley's rate was the percentage of former trainees who currently lived and worked in their home countries. The IDRC rate was the percentage of individuals who returned home immediately after graduate study; it did not reflect later losses to developed countries or international agencies.

Choice of University

As in Hefferman's USAID study, some IDRC former trainees said they were dissatisfied with the universities they attended -- 35% said another institution should have been selected. Much of the dissatisfaction seemed to stem from the insufficient levels of information and advice that were offered to potential training program participants. The authors also said students may have been dissatisfied because many professors at the universities where they were placed were unfamiliar with third world problems and issues and were therefore unable to give them useful advice.

IDRC TRAINING PROGRAM IN ASIA: AN EVALUATIVE STUDY by Pedro V. Flores
August 1983

A second study sponsored by IDRC focused on certain aspects of the organization's training programs in Asia from 1976 to 1982. Conducted in 1983 by Pedro Flores, the study examined three types of training programs: those that offered degree-oriented training, those that provided nondegree training (certificate, work-study, and study-tour types of programs), and those that recruited third world citizens to work on research programs in Canada. The study reviewed past programs and their participants, focusing on the practices, policies, and results of IDRC training programs. The analysis was meant to help IDRC recognize and apply the lessons of its training experiences in making future program decisions.

Although most of the data used in the study was obtained from the detailed files IDRC maintained on every training program participant, a brief follow-up questionnaire was sent to 96 former trainees from Asia who were supported by IDRC between 1976 and 1982. Forty-seven completed surveys were returned, a response rate of 51%.

The IDRC questionnaire was very brief (2 pages, 6 questions) and narrow in scope. It obtained data about the former trainees' current employment, major responsibilities in their current jobs, and opinions about the relevance and practicality of their courses to their work. Because of the limited number of topics explored by the questionnaire and the small number of responses, it was difficult to draw general conclusions from the survey. Therefore, the authors derived most of their conclusions and recommendations from the file data. The questionnaire responses were generally used as supplementary information.

The IDRC files contained data about some aspects of training programs that were neglected by many of the other major studies. For instance, the study examined common reasons that some applicants were rejected as program participants:

- language deficiency
- inexperience in field of training
- possibility that applicant would not return home

Another unique feature of this study was that it examined the methods by which information about IDRC training possibilities was distributed. Successful applicants' sources of information were compared to unsuccessful applicants' sources. The study's author drew no concrete conclusions, but 60% of the unsuccessful applicants learned about IDRC training programs from notices in their home universities or offices, while only 28% of the successful applicants learned about the programs in that way.

The study report did not discuss former trainees' current employment, major responsibilities, and possibilities for career advancement.

Since survey questions addressed these issues, the findings in these areas must have been inconclusive.

A STUDY OF FORMER ROCKEFELLER FOUNDATION SCHOLARS AND FELLOWS by James Coleman February 1984

One of the most complete and in-depth training program reviews ever attempted was one conducted for the Rockefeller Foundation. James Coleman surveyed former participants in the foundation's University Development/Education for Development Program. A 17-page, 45-question survey was sent to 923 individuals who participated in the program between 1961 and 1981; 517 completed questionnaires were returned, a response rate of 56%. Coleman said the response rate was high, considering that the latest addresses available for some respondents were 20 years old.

Coleman's questionnaire covered a wide range of training program issues: respondent's selection for the fellowship, selection of university, study program experiences, current career activities and experiences, and career history. Most questions offered a choice of alternatives but also allowed the respondent to write in a response not listed among the alternatives.

Coleman's paper listed the responses to many questions in tabular form and summarized the results of his analysis.

Employment Patterns

Of the 517 former fellows who responded to Coleman's survey, 76% were currently employed in academia. This figure is significantly higher than Fienup and Riley's 40% estimate. The majority of Rockefeller University Development trainees were employed by universities before their training programs and usually returned to their former occupations when they completed their studies abroad; Fienup and Riley's study included some individuals who financed their own study, so many fewer were employed by universities before they began their training programs.

Problems with Language

Twenty percent of the respondents to Coleman's survey indicated that they were not adequately prepared for their studies abroad; 15% said they experienced serious problems with the English language. This result is identical to Hefferman's but much lower than Fienup and Riley's 33%. As with employment patterns, however, the difference may reflect the fact that some participants in Fienup and Riley's survey were not supported by any agency, so the responsibility for language training fell on the individual instead of a sponsoring organization.

Like Fienup and Riley, Coleman found that Asians had the most serious problem with English upon arrival in the United States and that Afri-

cans had the least difficulty. Coleman also found that most language problems were remedied during the first 6 months of study abroad.

Satisfaction with Study Abroad

Most of Coleman's respondents said their study abroad was satisfying. The aspects of their training programs that yielded the most satisfaction were the variety of the courses offered and the quality of courses available in their specialized fields. (In both of these areas, 95% of the respondents said they found their overseas training to be very satisfying or somewhat satisfying.) The factor that many respondents found most unacceptable was the lack or poor quality of courses about their home countries. Cross-tabulations showed that social scientists were significantly more satisfied with their overseas study than their counterparts in the health sciences or in agricultural specialties.

Contact with Home Institution and Foundation Fellow Office

Forty-one percent of Coleman's respondents said their contact with their home institutions was too infrequent. However, 77% said that their contact with the Rockefeller Foundation fellowship office was sufficiently frequent, and only 22% said their contact with the office was too infrequent.

Fellowship Recipient Procedures

Seventy-two percent of Coleman's respondents (70% of the agricultural scientists, but only 46% of the health scientists and 38% of the social scientists) said the sponsor should make the final selection of fellows. Coleman did not speculate about why members of different professions had such widely differing opinions on the issue.

Thesis and Dissertation Topics

Coleman's study also examined the selection and completion of research topics. Typically, the two most important issues in this area are

- What is the most common method for selection of research topics?
- Should the research be conducted in the student's home country or abroad?

Coleman found that 53% of students chose their own research topics and 34% accepted research problems proposed by their overseas academic advisers. Social science majors were more likely to choose their own topics (73% did), and health scientists and agriculturalists were more likely to accept topics suggested by their host institutions.

Although 62% of Coleman's respondents said they completed both their academic coursework and dissertation research overseas, only 48% said they felt that this was the best approach. In fact, half of the respondents said that, in the ideal situation, coursework would be

completed overseas and dissertation research would be carried out at home or in a third country. Those in the health and agricultural fields especially preferred overseas coursework and home research.

Difficulties upon Return

On returning to their home countries, Coleman's respondents had the greatest difficulties in the areas of professional employment and personal finances. Many respondents said their biggest problems were insufficient funds for research and heavy teaching responsibilities. Many also said that, when they first returned home, they had little money and their salary payments were irregular. Only 6 of 516 respondents said they encountered no problems at all.

Resources Needed to Maintain a Strong Teaching and Research Environment

Respondents were given 12 alternatives and were asked to choose the three resources they felt were most vitally needed for their institutions to be highly effective in research and teaching. The respondents ranked the alternatives that pertained to finances as the most important: The two major concerns of the respondents were lack of funds for research and insufficient economic rewards for teaching. Other important factors were the organization and direction of research, availability of postdoctorate training programs, and opportunities for travel to conferences and meetings abroad.

FORD FOUNDATION SUPPORT FOR EDUCATION ABROAD OF THIRD WORLD NATIONALS by Robert G. Myers
September 1983

Robert G. Myers prepared a detailed summary of the Ford Foundation training programs implemented from 1960 to 1980. Although he did not use a widely distributed questionnaire, some of his more general findings and recommendations have implications for all types of training programs. In fact one of Myers' goals was to describe some of the Ford Foundation's training experiences so organizers of future training programs could learn from those experiences.

Most of the data that Myers used came from Ford Foundation files. The information was augmented by interviews with former fellows from Peru and Indonesia, which were instrumental in creating some noteworthy comparisons between former trainees from the two countries; for example, both Indonesians and Peruvians said they felt that studying abroad was beneficial to their careers but Peruvians said they realized the benefits immediately upon their return home, while Indonesians said they were initially worse off than their colleagues who did not study abroad. Many Indonesians said that after studying abroad their pay and seniority resumed at prefellowship levels; in the meantime, the careers of their peers who remained at home continued without interruption.

Myers also found that brain drain was minimal in some countries during the 10 years under analysis, but it was significant in other countries. Of 300 Indonesians supported by Ford Foundation, for example, only one failed to return home. By contrast, 30% of the fellows from Chile and Argentina migrated to developed countries within a short time after completing their studies abroad. Myers suggested that unstable political situations may have contributed to such high percentages; other factors may have been lack of needed equipment and low salaries in those countries.

Myers offered several recommendations about selecting fellows, deciding on a level of training, and choosing a location for training. Myers found that when the purpose of the training program was to build institutions, it was desirable to select fellows directly from those institutions. Myers noted that when overseas study was used to induce people to join an institution, the result was rarely positive. When knowledge generation was the objective of the program, the Ford Foundation had the greatest success when it set up local committees to choose among fellowship candidates. In virtually all programs, however, Myers found that competence in English was given too much emphasis in the selection process.

Choice of training location was sometimes found to be a problem regardless of the method used to match fellows with overseas institutions. Myers examined some training programs in which university selection was made by the grantee, some programs in which the home institutions chose the training location, and others in which the selection was made by the Ford Foundation. None of these methods was significantly superior to the others.

CIMMYT IN-SERVICE TRAINEE QUESTIONNAIRE: A PARTIAL ANALYSIS January 1984

CIMMYT used a mailed questionnaire to survey people it trained in maize, wheat, and economics programs from 1966 to 1982. Of 1,400 inservice trainees supported by CIMMYT during that period, questionnaires were distributed to 650; 219 responses were returned, a response rate of 45%. A large percentage of those who responded were supported after 1976. (The addresses used for people funded before 1976 were outdated and yielded a low response rate.) Completed questionnaires were received from 64 countries in Asia, Africa, the Caribbean, and South America.

As with most of the other programs covered in this review, persons who were trained by CIMMYT were highly pleased with the training they received and with the use they made of that training since they returned to their home countries. Ninety percent of the respondents indicated that the level of training they received of CIMMYT was about right. About 85% said they found at least a moderate amount of their training to be useful after they returned home.

Many of the CIMMYT respondents were increasing professional capacity in their home countries by spending some of their time training others in the skills they acquired at CIMMYT. A quarter of all respondents said they spent at least half of their time training others; 45% said they spent at least a quarter of their time training others.

Contact between CIMMYT and its former fellows had remained high since the respondents returned home: 62% said their communication with CIMMYT was regular since returning home. Respondents from all 64 countries indicated that CIMMYT staff members had visited them since they returned home. About half were visited an average of more than once a year; 22% were visited more than twice a year.

CIMMYT's study concluded that its training program was valuable to most of those who participated in it. It pointed out that 85% of the respondents gave very positive assessments of the CIMMYT training program. Most of the criticisms or suggested improvements were minor and, in most cases, did not adversely affect the former fellows' perceptions of their training experiences.

EAST-WEST CENTER ALUMNI by William Cummings August 1986

One of the more recent studies of a fellowship program was one conducted by William Cummings and published in August 1986 that followed up on East-West Center alumni. The center was established in 1960 to "promote better relations and understanding among the nations of Asia, the Pacific, and the United States through cooperative study." About two-thirds of the students who were funded to study at the center were from abroad; the rest were American citizens.

Cummings distributed 2,664 questionnaires to East-West Center alumni. Of these, 1,093 were returned, a response rate of 41%. The responses came from more than 45 countries, mostly in Asia and the South Pacific; about one-third of the responses came from American alumni. Seventy-five percent of the respondents earned their master's degrees at the center.

Ninety percent of the respondents said they were generally pleased with their training at the East-West Center, especially the scientific knowledge and skills they acquired. Ninety-five percent said their experience had a profound impact on their personal or career development. After studying at the center, about 20% of the respondents went elsewhere to further their education. Many others were able to use the skills they learned at the center to get new jobs or advance to higher levels in their old jobs.

Unlike most of the studies we examined, this study found that many of the respondents were no longer living and working in the countries of which they were citizens during their studies at the center. More than 15% changed their citizenship after completing their studies; most of these were residents of Asian countries who took American or Canadian citizenship.

Cummings' study also differed from the other studies we reviewed in the greater attention it paid to the selection process used by the East-West Center. Cummings used questionnaire responses to determine characteristics that were significantly related to the students' satisfaction and performance while at the center as well as later in their careers:

- Region of origin. In general, American students were more negative than students of other nationalities in their appraisals of their education and subsequent career opportunities; they were unhappy about irrelevancy in their training and inadequacy of their first jobs after studying at the center. Alumni from Asian countries were more positive in their responses on these issues.
- Age. Cummings found that, while younger participants were more impressionable during the time they studied at the center, they had greater problems readapting to their previous way of life after completing their studies. Older fellows had better defined their professional goals and therefore made somewhat better use of their experiences at the center.
- Marital status. In general, married students gave their education a more positive appraisal than single students. But married students who came to the East-West Center with their spouses and children were significantly less satisfied with their living conditions than married students whose spouses and children remained home.
- Job status. Students who had stable jobs when they began studying at the center made better use of their center experiences than those who were unemployed or saw their work as temporary. Cummings said job-oriented students tended to have a clear understanding of what they wanted to achieve through training and were more likely than unemployed students to feel they profited from what they learned.

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APPENDIX 2

QUESTIONNAIRE TO FELLOWS AND SCHOLARS SUPPORTED BY GRANTS FROM FORD FOUNDATION, ROCKEFELLER FOUNDATION, A/D/C, AND IDRC

| 1. | Name |
|----|--|
| 2. | Male Female |
| 3. | Mailing address |
| 4. | At what universities have you studied? |
| | Name of university Years attended Degree and major |
| | |
| 5. | What is the principal job you now hold? (If not currently employed, describe your most recent employment.) |
| | Employer |
| | City and country where you work |
| | Period of employment |
| | Job title and duties |
| | |
| 6. | What was your first full-time job on your return from donor- sponsored study abroad? |
| | Employer |
| | City and country where you worked |
| | Period of employment |
| | Job title and duties |
| | |

SELECTING INDIVIDUALS TO STUDY ABROAD

you think should be put on each of the following criteria: Should be Should be given little given great emphasis emphasis Academic merit, based on grades and examinations Potential as a staff member in the home institution. based on staffing plans Evidence of interest in issues of national development Probability of being influential through position, background, or connections Other (specify) 8. If you were asked to advise a donor agency as to the selection procedures that would give the best results, which one of the following would you recommend? Administrators of the home institution should make the selections. The donor agency should advertise the scholarships and receive the applications, but a committee of local professors and(or) others from the home country would choose among the applicants. The donor agency should advertise the scholarships and make its own selections from among the persons who apply. The home institution should be invited to make nominations but the final selection should be made by the donor agency after interviews. The donor agency should consult with local people who are knowledgeable about promising candidates but should then offer awards to persons of its own choosing. Other: please specify

7. In selecting men and women to study abroad, how much emphasis do

PREPARATION FOR STUDY ABROAD

| 9. | did you y? | | | |
|-----|--|-------------------------------|---|--|
| | | Not a serious problem | | A very serious problem |
| | In reading assigned texts and references | | | |
| | In understanding lectures | | | |
| | In writing papers | | | |
| | In writing examinations within assigned time limits | | | |
| | In participating in class discussions | | | |
| | In communicating with friends, fellow students, and teachers | | | - |
| 10. | In matters other than language, how you were at the start of your period | | | feel that |
| | • | Not adequately prepared | Could compete on an equal basis | Better prepared than most other students |
| | In mathematical skills | | | |
| | In statistics | | | |
| | In research methodology | | | |
| | In theory courses in | | | |

PLANNING THE OVERSEAS STUDY PROGRAM

| 11. | How much were you yourself in program as a fellow or schola | | ne planning | of your study |
|-----|--|-------------------------------------|-------------------------------|--|
| | | | ittle vement | Very active involvement |
| | Selecting the university at which to study | | | |
| | Choosing your field of study or specialization | | | |
| | Selecting a dissertation topic (if applicable) | | | |
| 12. | Who else played important roadroad? (Check as many as a | | | ogram of study |
| | | Selecting overseas university | Choosing field of study | Selecting dissertation research topic |
| | Academic administrator in home institution (dean, department head, etc.) | | | - |
| | Professors or other colleagues in home institution | | | |
| | Foreign professors teaching in your home country | - | | |
| | Representatives of the organization funding your study abroad | | | |
| | Family members or close friends | | | |
| 13. | How satisfied are you with the fellowship or scholarship pro | | at were mad | le in your |
| | | Very satisf | ied | Quite dissatisfied |
| | Choice of university Choice of field of study Choice of dissertation topic | | | |

EVALUATION OF YOUR STUDY PROGRAM

| 14. | Please check which of the tasks listed below are an important part of the job you now hold or, if not now employed, of the most recent job you held. | 15. Now, indicate you feel your training was in you to do the have checked a "important." | overseas in equipping tasks you |
|-----|--|---|---------------------------------------|
| | | Extremely useful | Of little or no value |
| | Doing scholarly research that meets international standards | | |
| | Conducting applied research on problems of locality, country, or region | | |
| | Providing advice or leadership on economic or social problems and policies | | |
| | Teaching graduate level courses in theory or research methodology | | |
| | Teaching graduate or undergraduate courses in applied areas of social science | | |
| | Carrying out administrative or managerial responsibilities | | |
| 16. | All in all, how valuable were the overseas? | knowledge or skill | s learned |
| | | Extremely valuable | Of little or no value |
| | In preparing you for your first full-time job after your return | | |
| | In helping you to do your current or most recent job | | |

| 1/, | | re neglected which y | ou would now include | | | | |
|-----|--|---|--|-------------------------|--|--|--|
| | Yes | No | | | | | |
| | If yes, ple | ase list: | | | | | |
| | | | | | | | |
| 18. | | ny subjects or skill on now than you did | s to which you would then? | give less time | | | |
| | Yes No | | | | | | |
| | If yes, ple | ase list: | | | | | |
| | | | | | | | |
| 19. | ing abroad, | | ience as a fellow or actory you feel your | | | | |
| | | | Very satisfactory | Not at all satisfactory | | | |
| | Variety and courses off | | | | | | |
| | Quality of field of sp | courses in ecialization | | | | | |
| | | aculty members c help and advice | | | | | |
| | Guidance in your academ | | | | | | |
| | Opportuniti scientific professiona | | | | | | |
| | Medical and care facili | health | | | | | |
| | Amount of c | ontact with uate students | | | | | |

| | Special services provided to foreign students by the institution | |
|-----|--|----------------------------------|
| | If applicable in your case: | |
| | Help in planning your research | |
| | Help in data collection | |
| | Help in analysis and dissertation writing | |
| | Access to research support services (libraries, computing services, etc.) | |
| 20. | In the department where you studie kind of involvement had there been problems of third world countries? | |
| | A widespread involvement throug Involvement limited to only a f Little or no involvement of any | ew faculty members |
| 21. | Did your own adviser have first-ha or rural issues in developing coun | |
| | <pre>In your own country? In other developing countries? No first-hand experience</pre> | |
| 22. | Besides yourself, about how many o countries were doing graduate work at any time during your period of | in the same department as you |
| | <pre>_ None _ One to four _ Five or more</pre> | |
| 23. | As part of your program of study a or dissertation? | broad, did you complete a thesis |
| | Yes No | |
| | If yes, what was your thesis title | or subject? |
| | | |
| | | |

| 24. | If you completed a thesis or dissertation, which of the following best describes your combination of graduate coursework and research? | | | | | | | |
|-----|--|--|-----------------------------|--------------------------------|-------------------------|--|--|--|
| | | Both academic coursework overseas. | c and disser | tation resear | cch were done | | | |
| | | Academic coursework was research was carried out | | eas and disser | tation | | | |
| | | Basic academic coursewor research and writing wer | | | sertation | | | |
| | _ | Other (explain): | | | | | | |
| 25. | uate | other students from your degrees, which of the fo ider most useful and prac | ollowing rec | | | | | |
| | _ | Both academic coursework done at the overseas ins | | tation resear | ch should be | | | |
| | _ | Coursework should be dor research at home. | ie at the ov | erseas univer | esity, | | | |
| | _ | Basic academic coursewor tion research and writing | | | | | | |
| | _ | Other (explain): | | | | | | |
| | Duri | NG CONTACT WITH DONOR AGE ng your period as a fello n did you have contact wi er or in person, on the f | ow or schola th your hom | r studying ab e institution | oroad, how | | | |
| | | | Frequent contact | Occasional contact | Little or no contact | | | |
| | Your | study program | | _ | | | | |
| | | research progress plans | | | | | | |
| | | future role in home institution | | | | | | |

| | Adequate help | Not end } | ough Help no nelp needed |
|--|--|--------------|-----------------------------|
| Immigration problems Travel arrangements Academic matters Family problems Health problems Other (please specify) |) | | |
| | | | |
| DBLEMS ENCOUNTERED ON RI | ETURN | | |
| Upon your return from which of the following encounter in adjusting | g difficulties or | problems, | if any, did you |
| | | | • |
| Personal and Family Problems | | ious Mino | · |
| · · · · · · · · · · · · · · · · · · · | pro n" ularity eed to | | or No |
| Family Problems Financial "settling in (e.g., delay or irregular in salary payments, no | pro n" ularity eed to c.) | | or No |
| Family Problems Financial "settling in (e.g., delay or irregular in salary payments, not take a second job, etc. Logistical arrangement (e.g., living accommod | pro n" ularity eed to c.) ts dations, | | or No |
| Family Problems Financial "settling in (e.g., delay or irregular in salary payments, not take a second job, etc. Logistical arrangement (e.g., living accommod transportation, etc.) Readjusting to tempo a style of life (working) | pro n" ularity eed to c.) ts dations, and g hours, | | or No |
| Family Problems Financial "settling in (e.g., delay or irregular in salary payments, not take a second job, etc. Logistical arrangement (e.g., living accommod transportation, etc.) Readjusting to tempo a style of life (working meals, etc.) Adjusting to the local | n" ularity eed to c.) ts dations, and g hours, l or tuation | | or No |

27. Did the organization which funded your study program give you as

| Employment Problems | Serious problem | Minor problem | No problem |
|--|--------------------|------------------|---------------|
| Difficulty in finding a job that made best use of your overseas educational experience | | | |
| Economic rewards for your professional work | | | |
| Social status for your professional work | | | |
| Acceptance by colleagues and superiors who remained in home country | | | |
| Infrastructure for Professional Work | Serious problem | Minor problem | No problem |
| Lack of institutional interest in research activities | | | |
| Heavy teaching load | | | |
| Too many other professional responsibilities | | | |
| Lack of equipment and supplies | | | |
| Lack of transportation for job-related travel | | | |
| Funds for research | | | |
| Facilities and funding for professional meetings and conferences in your home country | | | |
| Travel opportunities for professional meetings and conferences abroad | | | |
| Opportunities for additional training | | | |
| Availability of professional books, journals, etc. | | | |
| Local opportunities to publish research results | | | |

| Other (explain) | | | | | |
|---|--|---|---|------------------|----------------|
| Taking everythin relocated and reyou encountered: | established a | | | | |
| major difficu only minor di few or no dif | fficulties | | | | |
| Would the proble study abroad tod encountered? Pl lems you think w | lay be similar ease list in | to or di order be | ifferent fro low (1, 2, 3 | m those th | at you |
| Acceptance Level of ecceptance Social stat Heavy teach Lack of equeceptance Support for Research fur Facilities Opportuniti | and funds for es for profes ets for publis | s and supersons | nal work rofessional try professi ravel abroad | onal meeti | |
| During the first as a fellow or s in maintaining y professional car | cholar studyi our professio | ng abroad | d, from whom | did you g | et help |
| | Help r | eceived : | from: | | |
| | | Agency funding your | | Help needed | No |
| | Your employer | study abroad | Other (specify) | but not received | help needed |
| Funds to help you get started in research? | | | | | |
| Opportunities to attend scientifi and professional conferences? | С | | | | |

| | Opportunities to organize workshops or seminars? | | | | | |
|-----|---|-------------|------------|-------|-----------|-------------|
| | Opportunities to be a consultant on scientific or professional matters? | | | | | |
| | Information on new developments in fields of professional interest to you? | | | | | |
| PRO | FESSIONAL ACTIVITIES | | | | | |
| 32. | Since completing fo professional activi self or working wit | ties have y | you been e | | | |
| | Teaching | | | Often | Sometimes | Never |
| | Developed or presen | ted new cou | ırses | | | |
| | Designed changes in | the curric | culum | | | |
| | Supervised graduate | student re | esearch | | | |
| | Published textbooks translations) or ot for use in teaching | her materia | | | | |
| | Promotion of Schola | rship | | Often | Sometimes | Never |
| | Directed research fagencies, the unive international agenc | rsity, | | | | |
| | Took part in resear that required colle data in the field | | 3 | | | |
| | Submitted proposals research funding | for | | | | |
| | Planned workshops o for professional co | | | | | |
| | Presented scholarly professional or sci seminars or meeting or abroad | entific | | | | |

| Published professional or scientific books or monographs | | | |
|--|----------|--------------|-------------|
| Published original articles in professional or scientific journals | | | |
| Published notes or book reviews in professional or scientific journals | | | |
| Refereed articles for professional or scientific journals | | | |
| Administration | Often | Sometimes | Never |
| Participated in interagency planning committees | | | |
| Initiated new services or programs | | | |
| Developed or revised policies or procedures for a government agency, university, or business | | | |
| Consultation | Often | Sometimes | Never |
| Served as a consultant to government | | | |
| Served as a consultant to a private business | | | |
| Given program or other advice to the donor agency that supported your study abroad | | | |
| Served as a consultant to any other international agency or foundation | | | |
| In the past year, have your duties incl responsibility? | uded a s | ignificant t | eaching |
| Yes No | | | |
| If yes, please give the title of the cofew words of description if the title dontent. | | | |
| | | | |
| | | | |

33.

| 34. | If you are currently engaged in research, what are the research problem(s) on which you are working? | | | | | |
|-----|--|------------|--------------|-------|--|--|
| | | | | | | |
| | | | | | | |
| NET | WORKS MAINTAINED | | | | | |
| 35. | Since returning from your period as a fellow or scholar studying abroad, how often have you been in touch, personally or by letter with: | | | | | |
| | | Frequently | Occasionally | Never | | |
| | Representatives of the agency which funded your overseas study? | | | | | |
| | Faculty members at the foreign university where you studied? | | | | | |
| | Fellow graduate students at the foreign university where you studied? | | | | | |
| | Host families or other friends in the community where you studied? | | | | | |
| 36. | How frequently do you have professional contacts with: | | | | | |
| | | Frequently | Occasionally | Never | | |
| | Faculty members outside your own university: In your own country? In other universities in Asia In other parts of | | | | | |
| | the world | | | | | |
| | Governmental agency personnel in your country or region? | | | | | |
| | Professionals in international agencies working in your field? | | | | | |

| Yes | No | | | | |
|---|------------------|---|----------------------------|------------------------------------|--|
| If yes, pl | ease list: _ | | | | |
| In the efforts of your institution to carry on work of high professional quality, how important is each of the following? And how satisfactory is the situation in your institution with regard to each item? | | | | | |
| Very important | Not important | | Fully satis- factory | Not at all satis- factory | |
| | | Availability of professional books, journals, and other library resources | | | |
| | | Access to computer service | | | |
| | | Other necessary equip- ment and supplies | | | |
| | | Funds for research | | | |
| | | Institutional support for research in your field | | | |
| | | Local opportunities to publish research results | | | |
| | | Facilities and funding for professional meetings and conferenc in your home country | | | |
| | | Travel opportunities for professional meetings and conferences abroad | | | |
| | | Salary levels for your kind of work | | | |

| | | Social status of professional work in your field | |
|--|--|---|---------------------|
| | | Reasonable work loads | |
| | | Postdoctoral training opportunities | |
| | | Other opportunities for additional training | |
| | | Availability of visiting professionals from other nations | |
| | | Other (explain) | |
| | | | |
| SOM | E DEMOGRAPHIC INFORMAT | ION | |
| 40. | In what year were you | born? | |
| 41. | In what country were y | ou born? | |
| 42. What was the population of the community in which you of your life before entering secondary school? | | ch you spent most | |
| | 100,000 or more 20,000 to 100,000 between 5,000 and 2 less than 5,000 | 20,000 | |
| 43. | When you were growing your parents? | up, what was the major occ | cupation of each of |
| | | | |

| 44. Please check the highest level parents: | of education co | • | | | | | | |
|---|---------------------------------|----------------------|--|--|--|--|--|--|
| | father | mother | | | | | | |
| No formal education None beyond primary school Some secondary schooling Completed secondary school Some postsecondary education but no diploma, certificate or degree | | | | | | | | |
| Completion of a degree, diploma or certificate program beyond secondary school | , | | | | | | | |
| ***** | | | | | | | | |
| We realize this has been a long que willingness to share your experienc We also realize that there may be i | e and ideas th | rough it. | | | | | | |
| questionnaire which you feel should donor agencies and the internationa please add, in the space below or i ideas or advice you think will be h | l educational n a separate s | community. Would you | | | | | | |
| Thanks again, and best wishes. | | | | | | | | |
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