

FOOD, NUTRITION AND AGRICULTURE
A PROJECT TO INTRODUCE THE STUDY OF NUTRITION INTO THE
TRAINING OF AGRICULTURISTS IN SOUTHEAST ASIA

Report by Laura Jane Harper, Consultant

October 22/23-November 4:

Rome at FAO Headquarters via delle Terme di Caracalla, 00100; worked with Dr. Jean McNaughton, Chief of the Applied Nutrition Section, Food Policy and Nutrition Division, Franz Simmerbach and Pierre Baron, Nutrition Officers. Mr. Simmerbach had been in Southeast Asia in the summer of 1980 to discuss the possibility of this project with the "people" in the Philippines and more-or-less outline with them the work to be accomplished; Mr. Baron had been assigned to work with me on this project since Mr. Simmerbach was working on another project (a program field-training package) for a workshop to be held in the Philippines during the same time the Food, Nutrition and Agriculture project would be underway.

I also had the opportunity to work with Dr. L. Cobley (a FAO consultant and former Chief, Agricultural Education Service, Division of Literacy, Adult Education and Rural Development, UNESCO) and Dr. Sergio Valiente (a FAO consultant and professor, Institute of Nutrition and Food Technology, Santiago, Chile). Dr. Cobley is preparing an option of Food, Nutrition and Agriculture indicating how to integrate the nutrition concepts presented in the guidelines into existing agricultural subjects (1). Dr. Valiente is involved in adapting the guidelines for use in Latin America. Both of these contacts were beneficial; Dr. Cobley has a rich background in tropical agriculture, especially as applied to intermediate agriculture and gave very freely of his time, experiences, and concepts.

For one week of the time I was in Rome the FAO Regional Nutrition Officers from all areas of the world were meeting there. I met and talked at some length to several of them. Especially helpful to me later was the opportunity I had to get to know Dr. Qureshi, the Nutrition Officer for Asia and the Pacific, headquartered in Bangkok. One evening Dr. McNaughton arranged a dinner party for the nutrition officers and the members of her staff; she very thoughtfully included me. In fact, she invited Dr. Qureshi, Dr. Valiente, Dr. Cobley, Barbara Purvis and me earlier than the others and we were able to visit together for a little while informally. (Barbara, by the way, prepared the very first draft of this nutrition-content-outline when she was assigned in the early 1970's to Serdang, Malaysia at Pertanian Universiti, Malaysia). I had known Barbara Purvis at Michigan State University.

(1) When one looks at the original outline two concepts for incorporating nutrition into agricultural education are included (The "separate" course methods and the integration of nutrition ideas into existing agricultural subjects. When I returned to Rome, Dr. McNaughton told me the separate course approach is now preferred.

In addition I met with Mr. Guroff, Agricultural Counselor, U.S. Embassy and Mr. Rosenthal, USAID (119-A via Vittoria Veneto, tel. 4674, Ext. 541). Mr. Rosenthal had been involved in working with Dr. McNaughton on some of the initial ideas for this collaboration and wanted to give me the benefit of that relationship.

All-in-all, my time in Rome was very beneficial and I thought, when I left there, I had things well in hand. How disappointed I was to find out later--but certainly as no reflection of the planning and assistance at FAO or the U.S. Embassy/USAID in Rome--that from time-to-time I felt bewildered and pushed to accomplish the outlined assignment in the time frame allotted.

November 5-10:

Thailand (Bangkok); I have reported in some detail on the happenings there. However, I will list the people I met with there (since these contacts may be helpful to others working on this project in the future) and make a few additional comments:

1. From FAO and other United Nations Offices:

Dr. D. L. Umali, FAO Regional Director for Asia and the Pacific (Maliwan Mansion, Phra Atit Road, Bangkok, tel. 281-7844, Ext. 222). This contact was extremely helpful to me in Bangkok and again many times after I got to the Philippines. Before Dr. Umali joined FAO he was Dean of Agriculture and later Dean of the Graduate School at UPLB. He is highly respected there, maintains a home there, and returns at frequent intervals. Thus I was able to renew my acquaintance with him in Los Baños and seek his advice further.

Dr. D. B. Reddy, FAO Deputy Regional Director for Asia and the Pacific.

Dr. Rajah R. Singh, UNESCO, Director General for Southeast Asia and Pakistan. Dr. Cobby had suggested that I contact Dr. Singh to get a copy of the Tajimo Report on Middle Level Agricultural Teacher Training in Thailand, Korea, and Indonesia, funded by Japanese Funds in Trust and conducted by UNESCO. This document is the proceeding of a workshop chaired by Dr. Cobby and held in Bangkok in December, 1979. Dr. Cobby said this report includes a summary of the current status of intermediate agricultural education in Southeast Asia and a list of the names of many of the recognized agricultural educators of the region. Dr. Singh did not have a copy of this report and throughout my travels in Southeast Asia I did not see a copy. I did, however, meet some individuals who had attended the workshop. (Mr. Baron, Nutrition Officer FAO, Rome, offered to get a copy of this report for me from UNESCO).

Dr. L. Maung, UNICEF, Senior Planning Officer. His comments were beneficial relating to contacts in Thailand, as had been Dr. Singh's.

2. Kasetsart University Faculty:

Dr. Amara Bhumirantana, Director of the Institute of Food Research and Product Development.

Dr. Prasert Saisithi, Deputy Director of the Institute.

Dr. Bulan Phithakpol, Dr. Amara's assistant (with a M.S. degree recently completed at University of Rhode Island).

Dr. Tasanee Sorasuchart, Dean, Faculty of Agro-Business.

Dr. Somak Vangrai, Deputy Dean, Faculty of Agriculture.

Mrs. Sulee Promsaka Na Skonnakorn, Deputy Dean, Faculty of Education.

Mr. Darunee Edwards, Research Scientist.

Ms. Phorn Suwan-Vajokkaskij, Director of Extension and Teaching.

Ms. Ganjanee Attawipakpatsan, Head of Academic Research for Agricultural Extension Education (1).

Mrs. Tutamas Akaripat and Mrs. Sipipun Yenrudi, both from the Home Economics Department.

3. Other individuals interested in this project and beneficial to its success:

Mrs. Chavalit Ratanakul, Head of Department of Home Economics, Sri Nakharinwirot University, Bangkok.

Dr. Euwadee Kanjanasthiti, Chairman Home Economics Curriculum, Sukhothaithumathirat University, Bangkok and Chairman of the Nutrition Subcommittee National Research Council.

Dr. Propasri Thanasukan, Director Research Projects and Coordinator of Development, Bangkok University and Chairman, National Research Council.

4. From U.S. Embassy and USAID:

Mr. Paul Ferree, Agricultural Counselor, U.S. Embassy, 95 Wireless Road, Bangkok, Tel. 252-5040, Ext. 5171.

Mr. Jerry Wood, USAID Director (Tel. 2528-1911, Ext. 5254) and Mr. Merrill and Mr. Wood, USAID Health, Population, and Nutrition.

(1) Ms. Ganjanee also participated in the UPLB workshop.

A summary statement of these days in Thailand is that I received excellent response and support from FAO, the Thai people with whom I met and from Mr. Ferree, the Agricultural Counselor at the U.S. Embassy. Mr. Jerry Wood, USAID, was pleasant but did not know anything about the project and referred me to Mr. Merrill, the Health, Population, and Nutrition Officer. I talked to him at some length on the telephone and made an appointment to see him. However, he had a more pressing commitment and did not keep the appointment but, instead, referred me to his assistant-- a Mr. Wood. They were both pessimistic about the nutrition/population program in Thailand and not very responsive to the efforts of this project or in my being in Thailand. In fact, they were the only two people I talked to on this entire journey who did not think this idea has merit and should be tested.

The Thai group recommended that the Department of Vocational Education, Ministry of Education be involved in this project since the approval of that department and ministry is essential to incorporate the course into the curriculum in Thailand. We wrote a resolution for the 5-year nutrition program being planned and recommended through the National Research Council.

When I talked to Dr. Umali on the day I left, I suggested that the two Thai delegates to the Nutrition Content Workshop be (a) an agricultural administrator with curriculum planning experience and some knowledge of nutrition and (b) an administrator from the Department of Vocational Education with a background in agricultural education and nutrition (if possible).

November 10-13:

Kuala Lumpur/Serdang, Malaysia; I have reported in detail on my first visit to Malaysia. At the time, I was somewhat discouraged about my contacts there, but later these contacts and efforts turned out much better than I anticipated. I met with the following people:

1. From UNDP:

Mrs. Joan Lee, Public Relations Officer, Blocks K:9-10, Government Offices Complex, Jalan Duta, KL, Tel. 942-555, Ext. 687. I was disappointed that I did not get to meet with Mr. K. Satrap (the Regional Representative) but later when I had to telephone her from Manila for some assistance, she came through quickly and effectively; possibly Mr. Satrap would have been too busy to do so.

2. Pertanian Universiti, Malaysia, Serdang, Selangor:

Mrs. Nafsiah Omar, Acting Head of the Department of Human Development and Professor of Nutrition.

Mr. Sharifuddin Hamid, Deputy Dean in charge of curriculum, Faculty of Agriculture (tel. 03 356 101, Ext. 319).

3. Ministry of Agriculture:

Ms. Azizah bte Md. Jan, Agricultural Officer for Nutrition, Agricultural Extension Division (6th floor, Ministry of Agriculture, Jalan Swettenham, Kuala Lumpur). (In my earlier communication, I mentioned that I had an appointment with the Director of Agricultural Extension but when I got there I "only had an opportunity to talk to the Nutrition Officer, Ms. Jan." Frankly, at that time, I was not impressed with her interest or overall vision for human development. However, when I got back to Malaysia on my second visit in February I found out she had done some valuable ground work on my behalf, for which I was extremely grateful).

I did not get to see the U.S. Embassy people in Malaysia. The Agricultural Attache had recently changed. The current one, Mr. Vlabey, was away from the office for the day and I did not have a place in my schedule to make a later appointment.

I talked to Mrs. Lee before I left and gave her a report of my contacts and the qualifications of the delegates we hoped would be sent to the Los Baños workshop. I told her Mr. Hamid would "entertain" an invitation and, if possible, to choose the second delegate from the Ministry of Agriculture, Extension Division with experience in working with programming intermediate agricultural education and with some background in nutrition.

November 13-19:

Indonesia, Jakarta and Jogjakarta; when I arrived in Jakarta, Mr. J. G. Rumeau's office at FAO (14 Jalan M. H. Thamrin; tel. 324-939) had set up appointments for me at Gadjah Mada University, Jogjakarta, at the Agricultural University of Bogor, and with Mr. Ignatius Tarwotjo, Director of Nutrition, Ministry of Health. I asked if I might also talk to some people in the Ministry of Agriculture and the Ministry of Education who deal with curriculum development and approval for intermediate level (certificate or diploma) agricultural programs. They worked some of these appointments into my schedule, but in the meantime the appointments at Bogor were cancelled due to a College of Agriculture workshop being held at the same time.

In relation to this project I met with the following people:

1. FAO:

Mr. J. G. Rumeau, FAO Representative in Indonesia, and his program assistant, Mr. Kobn.

2. Gadjah Mada University, Kampus Bulak Sumur, Jogjakarta, Java:

Dr. Pramono Achmad, Head of the Department of Public Health, Faculty of Medicine.

Drs. Duljaihma, Rossis, Suherma, Purnomo, and Sarwono, Faculty of Public Health.

Dr. Drajit Budnia, Faculty of Pediatrics.

Dr. Ismadi, Head of the Department of Biochemistry and Dr. Darwisil, Instructor in Biochemistry.

Drs. Sumanti and Suratmau, Faculty of Agriculture.

Dr. Siti Rahayn Haditono, Faculty of Psychology (child psychologist).

3. Ministry of Agriculture:

Drs. Suwadi Sindwiedjo and Suyorio Supopati, People's Food and Nutrition Planning Bureau.

Mrs. Gustina Agus, Assistant Director for In-service Training in Extension in charge of Home Economics, Extension Division.

4. Ministry of Education and Culture:

Mr. Saedijarto, Director, Center for Curriculum Development, Agency for Research and Development, Jalan Jenderal Sudirman, Jakarta.

5. Ministry of Health:

Mr. Ignatius Tarwotjo, Director of Nutrition, Division of Nutrition, Jalan Prapatan 10, Jakarta. (I also met Carl Fritz, World Bank Representative to the Ministry of Health in Mr. Tarwotjo's office).

6. U.S. Embassy and USAID:

Mr. Alan W. Treck, Agricultural Counselor, U.S. Embassy, Medan Merdeka, Selatan 5, Jarkarta.

Dr. Calder (Health, Population and Nutrition) and Dr. Arthur Wong (Human Resources) USAID.

I regretted not being able to meet with the faculty at Bogor since that program supposedly is the model being used to develop agricultural programs in Indonesia. However, I was impressed with the nutrition program I saw at Gadjah Mada University. That program, however, is oriented toward public health nutrition. Gadjah Mada has an agricultural program and the faculty with whom I met showed interest in including a nutrition course in the agricultural curriculum.

As in the two countries visited earlier, I talked to Mr. Rumeau and his assistant about the qualifications we were seeking in the delegates Indonesia would send to the Los Baños workshop.

While I was at FAO Headquarters I met a Mrs. Khittasangka (a Thai from Kasetsart University) who is working on a family time-use/consumption/nutrition/agricultural study for FAO near Surakarta, Central Java. This group is attempting to learn as much as possible about rural families in the over-populated area of central Java. She is a home economist whose permanent appointment is with the Extension Department at Kasetsart. The study appears to be a very interesting one and should yield a great deal of information beneficial to all who work with the rural poor in Southeast Asia.

November 19, 1980-February, 1981:

Philippines, Manila and the University of the Philippines at Los Baños; I have reported on some of this in detail. Much of the rest of the information is contained in the Workshop program and the manuscript: Food, Nutrition, and Agriculture. In addition some additional comments should be made:

I stayed in Manila for two days and met with several individuals at FAO (Mr. H. Dall, FAO Representative for the Philippines and members of his staff, NEDA Building, 106 Amorsola Street, Legaspi Village, Makati, tel. 882-276), National Nutrition Council for the Philippines (Dr. Florentino Solon, Director, Mrs. Delfina B. Aguilton, Deputy Director, and members of that staff, Metro Manila) the Philippine Dietetic Association (Mrs. Patrocinio de Guzman, Chief of the Food Management Division, Food and Nutrition Research Institute of the Philippines and President of the Philippine Dietetic Association), USAID (Dr. Sinding, Mrs. Maura Mack, Nutrition Officer, and Mr. John Boren), and the Agricultural Counselor's Office, U.S. Embassy (Mr. John Riesz and staff).

I attempted unsuccessfully to get in touch with Dr. F. A. Bernardo, whom I had been told was the Executive Secretary of the Asian Association of Agricultural Colleges and Universities and one of the most influential agricultural administrators in higher education in Southeast Asia; his office is at 4 Lourdes Street, Pasay, Metro Manila.

On Friday afternoon, November 21, I went to Los Baños and on Saturday morning I met with Dr. Josepha Eusebio, Project Director. Philippine Minister of Agriculture Dr. Tanco was attending a conference at UPLB that day and Dr. Eusebio suggested that we attend. I had a brief and very helpful conversation with Minister Tanco, UPLB Chancellor Emil O. Javier, and UPLB Dean of Agriculture C. L. Perez concerning the workshop, its purposes and hoped

for outcomes. We discussed several people we might contact who would be of assistance to us. From these contacts and additional consultations with other agriculturists, educators, and the workshop advisory committee, Dr. Eusebio and I later chose the Philippine delegates.

On Monday, I met with Dr. Perry E. Sajise, Dean of the Institute of Human Ecology, was introduced to the faculty of Human Nutrition and Foods, and moved into the office Dr. Eusebio had assigned to me. She reviewed with me the names and credentials of the three individuals she wished to serve on the Workshop Advisory Committee. They were: Dr. Higinio A. Ables, Mrs. Delfina B. Aguillon, and Dr. Amanda M. Dalisay. The following day I spoke with Dr. Cesar Jesena at some length. He is Executive Secretary of the Association of College of Agriculture in the Philippines, with an office in the town of Los Baños (College, 3720, Laguna). His understanding of agricultural education in the Philippines was both broad and specific. This meeting was extremely helpful to me.

I immediately set about to develop the workshop plans and move the workshop forward by:

1. Establishing meeting schedules for the Advisory Committee for every other Monday afternoon (after checking their schedules to determine the best meeting time), developing agenda and materials for them to study ahead of time, and providing minutes of each meeting for them to review.
2. Making plans to meet and talk with as many people as possible who would be able to furnish background information and materials and present ideas for workshop approaches and needs. Many of these people were connected with ministries and organizations in Manila, others were located at the University of the Philippines at Los Baños. They ranged from extension agents and elementary and secondary school teachers of agriculture to department heads, deans, college presidents, ministry officials, and business representatives.
3. By talking to numerous agriculturists and nutritionists to test the concepts and content included in the guidelines both for appropriateness of content and problem solving experiences to Southeast Asia and levels of presentation. Included in these discussions were college professors of agriculture and nutrition, extension and agricultural education administrators, extension agents and teachers of agriculture in secondary schools.

4. By attending several meetings on campus where related topics were presented and discussed; this included two international workshops related to community nutrition problems. I also visited a number of villages (barnios) to understand their organizational structure, needs facilities, and available social services.
5. By reviewing the guideline document in detail and attempting to convert it (as much as possible) from its East African orientation to the situation in Southeast Asia.
6. By again contacting the three other Southeast Asian countries included in this project to define the criteria for choice of delegates, getting from them the names of the delegates and, later, by sending materials to the delegates to study in preparation for the workshop.
7. Through consultation with Dr. Eusebio and the Advisory Committee, develop the workshop program, choose the speakers and other workshop leaders, and work with them to help provide the background materials they needed.

The delegates and consultants who participated in the workshop were:

Delegates:

INDONESIA:

Mr. Djiteng Roedjito,
Deputy Dean and Professor of
Nutrition
Agriculture University
Bogor, Indonesia

Mr. T. O. Soemarno, Head
Lembang Agricultural Training
Center
AAETE Agency
Lembang, West Java, Indonesia

MALAYSIA:

Mrs. Noraini Ahmad, Assistant
Agricultural Officer
Agriculture Institute
Ayer, Hitam, Johore, Malaysia

Mr. Sharifuddin Hamid, Deputy*
Dean, Faculty of Agriculture,
Universiti Pertanian Malaysia
Serdang, Selangor, Malaysia

PHILIPPINES:

Dr. Esther M. Cabotaje, Vice-
President for Academic
Affairs
Central Mindanao University
Musuan, Bukidnon, Philippines

Mrs. Rosario Icarro*
Bureau of Agricultural Extension
Ministry of Agriculture
Dilimon University
Quezon City, Philippines

Mrs. Silvina Laya, Executive*
 Director
 School Health and Nutrition
 Center
 Ministry of Education and
 Culture
 Aroceros Street, Metro Manila,
 Philippines

Mr. Jose Sal Tan, Executive*
 Secretary, AAACU, and Professor
 Viscayas State College of
 Agriculture
 Baybay, Leyte, Philippines

THAILAND:

Mrs. Ganjanee Attawipakpatsan,*
 Head
 Academic Research for Agricul-
 tural Extension Education
 Kasetsart University
 Bangkok, Thailand

Mr. Sumit Mangkang, Chief
 Agricultural College Division
 and Extension
 Agricultural College Division
 Department of Vocational Education
 Ministry of Education
 Bangkok, Thailand

*I had contacts with these individuals in their countries prior to their participation in the Guidelines Workshop.

Consultants:

Dr. Higinio A. Ables, Vice
 Chancellor for Academic
 Affairs
 University of the Philippines,
 Los Baños
 College, Laguna 3720, Philippines

Dr. Delfina S. Aguillon
 Deputy Director, National
 Nutrition Council of the
 Philippines
 South Super Highway, Makati
 Metro Manila, Philippines

Dr. Amando M. Dalisay, Fellow in
 Agricultural Economics
 Center for Policy and Development
 Studies
 University of the Philippines,
 Los Baños

Dr. Josefa S. Eusebio, Team
 Leader
 Human Nutrition and Foods
 Institute of Human Ecology
 University of Philippines,
 Los Baños

Dr. Pierre Baron, Nutrition
 Officer
 Applied Nutrition Programmes
 Food Policy and Nutrition
 Division
 Food and Agricultural Organiza-
 tion of the United Nations
 00100 Rome, Italy

Dr. Laura Jane Harper, Dean
 Emeritus and Professor
 College of Home Economics
 Virginia Polytechnic Institute
 and State University
 Blacksburg, Virginia 24061
 U.S.A.

Certain other agricultural and nutrition leaders as well as representatives from FAO and USAID in the Philippines were also invited to participate in the workshop and several of them did so.

The workshop, held January 11-16, 1981 including in its program the following topics:

- Purpose of the workshop.
- Workshop program goals, organization and group responsibilities.
- Agricultural policies in Southeast Asia.
- Nutrition policy in Southeast Asia.
- Important nutrition concepts and their relevance to agricultural education.
- Effective communication methods for nutrition in agriculture.
- Helping agricultural students learn how to develop, adapt, and evaluate community-based programs.
- Developing, adapting and evaluating nutrition content in agriculture to meet changing agricultural situations in Southeast Asia.
- Organization and structure of agricultural education in Southeast Asia and implications for introduction of nutrition content into agricultural curricula.
- Institutionalizing and implementing the workshop at national and regional levels.

A copy of the presentation I made early in the workshop is attached. It summarizes the charge, goals, restraints, and hoped-for outcomes of the workshop.

During the workshop I made arrangements with the delegates from the various countries to visit them again later in their own countries and work with them on the initial steps to institutionalize the goals of this project. We outlined the time for each visit, the program items to be worked upon, the influential people with whom we should meet, and any other work they thought I could help them with that would assist them in initiating and implementing this nutrition program into their intermediate agricultural curricula. I later put these notes into writing and handed them to the persons concerned before they left Los Baños. I asked each of them to discuss the goals and recommendations of the workshop with appropriate educational and agricultural leaders in their respective countries prior to my future visit so that, if possible, plans for implementation could be drawn up and agreed upon prior to or during my visits there.

The two weeks spent in Los Baños following the workshop was devoted to incorporating the workshop recommendations into the guidelines manuscript, refining the illustrations and other visual materials included in the guidelines and getting the materials typed, duplicated, and assembled so that I could take enough copies with me for use in the countries I visited and to FAO Headquarters in Rome.

In late November I was able to contact Dr. F. A. Bernardo who is now President of Viscayas State College of Agriculture, Baybay, Lehte 7127, Philippines. His ideas and suggestions were extremely helpful and his support of this project has proved valuable. Although Dr. Bernardo is no longer the Executive Secretary of AAACU, one of the faculty members at the same college who has worked closely with Dr. Bernardo for several years on AAACU affairs, Mr. Jose Sal Tan, serves in that capacity. Dr. Bernardo is now the President-Elect of RAACU. He told me AAACU holds Bi-Annual meetings, the next one to be held in 1982. However, the Association will hold a food technology workshop in 1981, possibly in Bangkok. Dr. Bernardo and Mr. Tan agreed for one of the delegates to the Nutrition Content Workshop to make a presentation of this project at their 1981 workshop. They further agreed to have a full report of this work at their 1982 meeting. This needs to be followed up with both Dr. Bernardo and Mr. Tan since approximately 60% of the administrators (presidents, chancellors, agricultural deans) in agricultural colleges and universities in Southeast Asia are members of that organization.

At our workshop in Los Baños the Philippine delegates developed plans to hold a workshop in September 1981 to which the various agricultural colleges and universities and appropriate ministries would send delegates and at which plans would be developed to initiate nutrition study in agricultural education in the Philippines. This workshop will be funded by the National Nutrition Council.

Dr. Bernardo also committed the Viscayas College of Agriculture to initiate the course into that program as soon as these guidelines are available. He stated that he already has a faculty member, well qualified in nutrition, who is ready to introduce the course.

February 1-5:

Jakarta/Bogor/Lembang, Indonesia; returned to Jakarta on the evening of February 5. On Monday morning when I went to FAO Headquarters I found that the two Indonesian delegates to the Los Baños workshop had contacted Mr. Satrap and left a schedule for me. I spent the most of that day at the Agriculture College in Bogor and the next day at the Agricultural Training Center at Lembang.

At the Los Baños meeting, Mr. Roedjito told us that at the Pertanian Universiti (Agriculture University), Bogor, last year they initiated a required course in nutrition into their undergraduate (B.S.) agricultural program. It is taught by the nutrition faculty of the Department of Home Economics. Upon returning to Bogor from the Philippines, Mr. Roedjito showed this outline to the nutrition faculty; they liked it and had already

begun to alter their course to our model. They had also begun to translate the copy of the nutrition guidelines which they carried with them from Los Baños into Malay (the official Indonesian language). I asked them to discontinue the translation until we can get the corrected copy to them. I met with their faculty at some length, we discussed their program and this course in detail. I also went over with them many parts of the revised outline to check if the foods and examples we used were applicable to their situation and sought their advice on how we might make our document fit their teaching/learning situation effectively.

Mr. Roedjito provided an opportunity for me to meet the Dean of Agriculture, Dr. I. B. Teken, a Ph.D. in agricultural economics from Purdue, and his administrative staff. One wall of his office contained the roster of all courses of the agricultural programs, how frequently they are taught and the number of students enrolled in each course last year. With a great deal of pride he showed me that the undergraduate curriculum requires a course in human nutrition of all students. Each year, approximately 500 students receive a baccalaureate degree in agriculture at Bogor. They plan to begin to phase in the course included in the Nutrition Guidelines this coming year, if we get the materials to them in time. This coming year they will use our outline for a class of approximately 70 students. In subsequent years they plan to teach this course to approximately 500 students, annually.

Pertanian Universiti at Bogor is the "model" for agricultural programs in higher education in Indonesia. The programs to be included in agricultural education in Indonesia are planned, developed, tested, and standardized there; then they are sent on to the other agricultural colleges to be used by them.

At Bogor our conferences included meetings with the following people:

Dr. I. B. Teken, Dean of the Faculty of Agriculture
 Three deputy deans whose names I did not get
 Dr. I. R. Suhardjo, Head of the Department of Nutrition
 Mrs. G. Suprihatin and Miss Rihati, Nutrition Faculty who will be
 involved in teaching the nutrition course
 Mr. Roedjito

All-in-all this was a very positive and rewarding experience and, for me, an excellent morale builder for my first effort to "sell" this project after putting the workshop draft of the Guidelines together.

Mr. Soemarno had left word at FAO that he would send a car and driver to Bogor to drive Mr. Roedjito and me to Lembang to visit the Agricultural Training Center there and for the three of us to work together on the guidelines. The car did not come; Mr. Roedjito and I set out with his "jeep" and driver through the mountains to Bandung, where we spent the

night. I had not been in that part of West Java before. In spite of the rain and very narrow mountain roads the natural scenery was beautiful. The next morning early we were scheduled to meet Mr. Soemarno and he would take us on to the Lembang Agricultural Training Center. However, his sister had been taken seriously ill and he had taken her to the hospital. We were met by a Mr. Dadang who knew very little about the program and nothing about this project. We toured the training center (it is used for pre-service and in-service training of agricultural extension agents in a certificate level training program). We were then taken to a village that is used for the students to get hands-on practical experience. We toured the various fields and training situations, still in the rain, and had an opportunity to meet some of the farm families in their homes. This center, like the agricultural university at Bogor is used as a "model" center to develop and test agricultural courses and curriculum changes for the preparation of extension agents.

I regret very much not having an opportunity to work with Mr. Soemarno on this trip, to learn what his plans are in relation to this project, and get his input from the conversations he had with his colleagues after his return from Los Baños to Indonesia.

I made a report to Mr. Satrap's assistant at FAO (Mr. Satrap was away) to let him know the status of this project in Indonesia.

February 5-9:

Kuala Lumpur/Serdang, Malaysia; each time I go to Malaysia they are in the midst of some kind of holidays. They celebrate the Muslim holidays, the Christian holidays, the Malaysian holidays related to their independence, etc., and the Chinese holidays. This time I was there during the Chinese New Year holidays. In spite of this I had a very good experience in meeting people. In Los Baños we had planned for me to go to Johore to see the Agricultural Institute there and meet the people at that center in addition to meeting with Mr. Hamid and his staff at Pertanian Universiti, Serdang. However, Mrs. Noraine Ahmad, the delegate from the Malaysian Extension Division to the Los Baños workshop came to Kuala Lumpur to meet me.

This was a very good experience. On Friday, I had an opportunity to go over the Guidelines and the program with the Extension Education "people": Mrs. Noraini Ahmad, Mrs. Azizah Jan (the Nutrition Officer for Agricultural Extension I had met on my visit in the fall), two Extension Program Leaders and Mr. Kamaruzaman Hj Alias, Director of Extension, Extension Division, Ministry of Agriculture. I was greatly impressed with Mr. Alias, as I had been with Mrs. Noraini Ahmad in Los Baños. He is intelligent, creative, analytical, and well organized.

The Ministry of Agriculture, through the Agricultural Institutes, operates both a certificate program for the pre-service education of Agricultural and Home Economics Extension Agents and an in-service training program for

them. (I believe they told me they have 8 such institutes, one for each "state" or "province" in Malaysia. The plan to initiate this course into their curriculum beginning with the 1982-83 year. They plan to offer it to the home economics agents as well as the agricultural agents, since the home economists have responsibilities to work with farmers as well as farm families.

They would like to have a workshop in September 1981 for the administrators, program leaders and teachers of this course in each of the eight institute areas. They stated approximately 30 people will be involved. They have asked FAO for assistance to conduct this workshop.

February 9-10:

Bangkok, Thailand; I had almost two full days in Bangkok. Although I had made a very specific plan for these days while we were in Los Baños, the schedules of the two delegates had been changed since that time and they had not accomplished as much as I had hoped for. Ms. Ganjanee Attawipakapatsan (Kasetsart University) was not able to meet with us. Mr. Sumit Mangkang met me at the plane and helped me find a hotel. (In Los Baños he had agreed to make a hotel reservation for me but he had not done it and most of the hotels were full.) The next day we went through the manuscript and I listed items for which we needed input from Thailand; then we made a new schedule for the week for which I would return to Thailand.

March 15-21:

Bangkok/Chiang Mai, Thailand; I was several hours late getting back to Thailand. I started from Cairo on JAL, but due to engine trouble discovered in Aba Daubi we were transferred to Garuda (Indonesian Airlines). I telephoned Mr. Mangkang's office early Monday morning; he told me he had cancelled my appointments. He had telephoned the hotel on Sunday noon and found out I was not registered (this of course was due to the plane difficulty). However, he sent a program specialist in Vocational Education, Miss Sunan Sastrauaha, to the hotel and we organized a good day. We checked several ministry offices to collect and verify data from Thailand used in the Guidelines.

While I was away from February 10-March 15, Mr. Mangkang had conferences with his director (Agricultural Colleges Division) and with the Director of Vocational Education and they had agreed to initiate "our" nutrition course into both their certificate and baccalaureate program (they are initiating the post certificate/diploma--now a 2 year program--for two additional years of study in 1981-82. The students who graduate from the latter program will receive a B.S. degree in Agricultural Education). Both of these programs are planned to train agricultural extension workers and agricultural secondary school teachers.

The courses will first be taught in Chiang Mai at the Agricultural Institute: a post secondary 2-year program and at Maejo Institute of Agricultural Technology, a third- and fourth-year program for graduates of the Institute. Mr. Mangkang had arranged for me to go to Chiang Mai to talk to the agricultural administrators there. Miss Sastrauaha went with me.

We left Bangkok early Tuesday morning and returned late Wednesday night. The first day we spent observing rural community development projects, primarily sponsored by the Ministry of Health; however, Vocational Education (through its agricultural extension program) is beginning to have some input into this community work. More is planned. In the afternoon when we returned to Chiang Mai, I asked for an opportunity to go by the hospital to see: Dr. Ousa Thanangkul, Director
 Research Institute for Health Services
 Chiang Mai University, Chiang Mai

I had heard her give a report on some community work her unit is doing on an experimental basis to develop a sound system for health/nutrition/community programs in rural areas. What I had seen that morning was so very much like what Dr. Ousa reported, I thought possibly this work might be a cooperative endeavor, but I found it was not. (There is so much parallel uncoordinated effort in Southeast Asia; what a pity).

The next day we visited Maejo Institute. We met with
 Dr. Prasong Vorayos, Vice Rector
 for planning and development
 Maejo Institute of Agricultural Technology
 Amphoe Sansai, Chiang Mai, Thailand

Mr. Clarence Shettlesworth
 Sponsored by the British Council
 Coordinator for English in Agricultural Technology
 Maejo Institute of Agricultural Technology
 Chaing Mai, Thailand

and several others. (Mr. Shettlesworth seems to be in charge of curriculum.) We went over their curriculum; they talked about where they would put this course; and asked for all the assistance they can get in the forms of outlines, teaching materials, etc. We also had a tour of their facilities. They are now accepting their first students for the fall term, 1981.

After we returned to Bangkok, I had the opportunity to meet with the Assistant Director of Vocational Education (the Director was in Tokyo) and he reinforced Mr. Mangkang's statement that the Department of Vocational Education plans to initiate this course if they can get sufficient technical assistance.

On Thursday and until noon on Friday, Mr. Mangkang, Mrs. Ganjanee Attawipakapatsan several members of the Nutrition Research Council, and I worked on the

Guidelines, talked about how they could be adapted to the University system in Thailand. However, the Nutrition Research Council has not finished their study of the Guidelines. Thus they could not make a recommendation of how they will be used.

Mr. Mangkang and his group would like to have a workshop in October, 1981 to introduce the Guidelines to their Institute administrators and the probable teachers of the course. He stated Vocational Education does not have money for this workshop. He plans to submit a proposal to FAO.

Miss Sunan told me if they have a workshop, she will be called upon to plan it. She asked me if I would give her some ideas for putting it together. She is a good person, and although she is not a nutritionist, she understands program planning. Her full name and address are: Miss Sunan Sastrauaha, Department of Vocational Education, Ministry of Education, Room 305, Ministry Rajadamnoen Avenue, Bangkok, tel. 282-3068.

I talked to Dr. Qureshi twice while I was there: (1) early in the week to get his advice on whether I should recommend an outside consultant for the workshop or recommend an internal one. He suggested that I recommend an outside consultant. My second meeting with him was to give him a brief report on our accomplishments and the current status of the project in Southeast Asia.

Mr. Ferree (U.S. Agricultural Counselor) invited me to go to an agricultural fair and presentation at which he was to represent the U.S. Ambassador. This fair featured agricultural developments in North Thailand. The King of Thailand was scheduled to make the awards; however his son, the Crown Prince, appeared in his place. I learned more about agricultural developments in North Thailand there than I had learned from any of the Thais I had met. A Dr. Calhoun (ARS previously of Oregon State University and a plant physiologist) is in charge of the U.S. agricultural projects there. I also met some people from Germany and France working there and several faculty members from the Kasetsart Experiment Station in North Thailand. I am so glad "our" course will be initiated in that atmosphere.

March 22-28:

Rome, FAO: I returned to Rome to review what I had done with Dr. McNaughton, Mr. Baron and Mr. Simmersbach. I had sent copies of the revised guidelines on to them ahead of time. They had reviewed them carefully and gave me the benefit of their experience and ideas. I also made a report to Mr. Rosenthal at USAID and talked briefly to Dr. Roberta van Haeften, who gave me permission to bring the manuscript back to Blacksburg to work on it further.

Somce observations and recommendations: We have only uncovered "the tip of the iceberg. This project, I believe has great promise. However:

1. A great deal of follow-up needs to be done. Dr. McNaughton stated that she has budgeted a trip for Mr. Baron to make to Southeast Asia this coming fall. I would like to write letters to all the people I worked with to encourage continued participation.
2. A student text to accompany these guidelines is badly needed--and quickly.
3. Manuals for both teachers and students; a student laboratory book--so to speak--and an instructors manual.
4. A good sound broader-based nutrition text applicable to Southeast Asia is badly needed. What they are using are so out of date.
5. Library reference materials, visual aids, etc. are other needed resources.
6. A workshop (or workshops) to prepare teachers will have to be undertaken, if this project is to flourish.
7. I have truly enjoyed this assignment and I thank you for the opportunity to undertake it.

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