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INDONESIA



Eastern Islands Agricultural Education Project
Project No. 497-0293

Cooperating Groups:
BKS (Association of Eastern Island Universities)
WSU (Washington State University)
AID (Agency for International Development)
GOI (Government of Indonesia)

PL-ARC 537

Report to BKS/WSU/USAID
Eastern Islands Agricultural
Education Project in Indonesia

William P.A. Scheer

February, 1984

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Eastern Islands Agriculture Education Project
Indonesia

William P.A. Scheer
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September 17 - November 22, 1983

SITUATION:

The BKS is the coordinating body of ten universities located on East Kalimantan, Sulawesi, Ambon and Irian Jaya. These institutions are at various stages in the development of University agriculture related Extension programs. Input is required to help stimulate a coordinated development of these programs at the individual sites and among the BKS members as a whole.

OBJECTIVES:

Contact BKS members in relation to the following programs:

1. KKN (College work experience)
2. PKK (Home Economics Extension)
3. Experimental Villages
4. Experimental Farms

Specific objectives are to.

- a. Review the present status of University and Ministry of Agriculture programs
- b. Help insure program effectiveness
- c. Stimulate conformity among individual programs within BKS membership
- d. Communicate new ideas

METHODS:

1. Seminars
2. Group discussions
3. Site visitations
4. Individual communications

AUDIENCE:

- BKS member universities faculty and students
- Ministry of Agriculture Experiment Stations and Extension Units' staff

RESULTS:Chronological outline of locations visited

September	17	Depart Seattle-Tacoma airport
	18, 19	Hong Kong
	20	Arrive Jakarta
	21	Jakarta, U.S. Embassy and AID office
	22	Arrive Ujung Pandang
	23	Briefing with Yarberry - Introductions faculty UNHAS
	24	Discussions with Podoll regarding Experimental Villages Discussions with IKIP faculty regarding PKK programs
	25	Holiday
	26	Visit Ministry of Agriculture Information Center in Daya
	27	Meeting with Dean of Agriculture UNHAS
	28	Present seminar at IKIP
	29	Visit Ministry of Agriculture Research Station in Maros
	30	Travel to Tanah Toraja
October	1	Study agriculture in Tanah Toraja
	2	Return to Ujung Pandang
	3	Visit KKN sites in South Sulawesi with Governor
	4	Program discussions with Yarberry
	5	Discussions with UNPATTI faculty regarding program objectives
	6	Attend BKS meeting
	7	Travel to Ambon
	8	Meeting with UNPATTI faculty
	9	Holiday
	10	Meetings with UNPATTI agriculture faculty
	11	Present seminar to UNPATTI faculty

- October 12 Present seminar to IIP faculty
Return to Ujung Pandang
- 13 Progress report to Yarberrry
- 14 Present seminar to UNHAS faculty and students
- 15 Visit Experimental Village near Maros
- 16 Travel to Banjarmasin
- 17 Meet with UNLAM faculty
- 18 Visit Upland Experiment Station and Transmigration Village
near Banjarbaru
- 19 Present seminar to UNLAM faculty and students
Review basic Plant Pathology slide series
- 20 Travel to Samarinda via Balikpapan
- 21 Meet with UNMUL faculty
- 22 Visit two KKN village projects near Samarinda
- 23 Holiday
- 24 Visit Ministry of Agriculture Extension Center in Samarinda
Visit Transmigration Villages and Extension Unit at Tuluk
Dalam
Present seminar to UNMUL faculty and students
- 25 Return to Ujung Pandang via Balikpapan and Palu
- 26 Progress report to Yarberrry
- 27 Travel to Manado
- 28 Meet with UNSRAT faculty
Visit fruit farm near Manado
- 29 Visit UNSRAT Experimental Farm and Ministry of Agriculture
Coconut Experiment Station
- 30 Holiday
- 31 Visit Experimental Villages near Tomohon
- November 1 Travel through agriculture region to Kotamobagu
- 2 Visit Dumaga Irrigation Project and National Park Site
- 3 Present seminar to UNSRAT and IKIP faculty
Visit coconut processing plant

November 4 Travel to Palu

5 Meet with UNTAD faculty
Visit Experimental Farm site

6 Visit Irrigation Project at Gumbasa

7 Present seminar to UNTAD students and faculty
Visit Ministry of Agriculture Research Station and Extension Unit

8 Return to Ujung Pandang

9 Progress report to Yarberry

10 Travel to Jaya Pura via Biak

11 Meet with UNCEN faculty
Participate in KKN planning meeting

12 Attend UNCEN anniversary ceremonies

13 Visit Transmigration Village near Lake Sentani
Travel to Biak

14 Travel to Monokwari
Meet with UNCEN College of Agriculture faculty
Visit Experimental Farm

15 Present seminar to UNCEN students and faculty

16 Travel to Ujung Pandang via Biak

17 Write reports

18 Write reports and arrange travel

19 Final report to Yarberry

20 Holiday

21, 22 Return to U.S.A.

Listing of BKS University Contacts

<u>Locations</u>	<u>Name</u>	<u>Position</u>
UNHAS - Ujung Pandang	Hasan Walinono	Rector
	H. Mas'ud Junus	Dean of Agriculture
	Fachruddin	Director of Research
IKIP - Ujung Pandang	Parawansa	Rector
	Akil Malla	Faculty (Food Science)
	Abdul Rasyid	Faculty (Food Science)

<u>Locations</u>	<u>Name</u>	<u>Position</u>
UNPATTI- Ambon	Moh. R. Lestaluhu	Rector
	Jan L. Nanere	Rector I
	Benyamin Turukay	Dean of Agriculture
	Jan C. Lawalata	Faculty (Soil Science)
	Johannes J. Fransz	Faculty (Forestry)
	Boedi Kaliman	Faculty (Extension)
UNLAM - Banjarmasin Banjarbaru	Albert V. Nikijuluw	Faculty (Language)
	H. M. Kustan Basri	Rector
	Ismet Ahmad	Dean of Agriculture
	Gusti Sarbini	Experimental Farm Coordinator
UNMUL - Samarinda	Mirhanuddin	Komisaris BKS
	Soetrisno Hadi	Rector
UNSRAT - Manado	Soehartini	Dean of Agriculture
	M. Junus Rasyid	Faculty
	Y. M. Roepang	Asst. Komisaris BKS
	Koencoro	Faculty
	Yusuf	Faculty (Language)
	Soehartini	Faculty (Natural Science)
IKIP - Manado	W. J. Waworoentoe	Rector
	J. Warouw	Dean of Agriculture
	Dantije T. Sembel	Komisaris BKS
UNTAD - Palu	S. H. Sinolungan	Rector
	Jan Turang	Coordinator Experimental Village
	B. Demmassabu	Faculty (Experimental Village)
	Jacob Sahulata	Faculty (Experimental Village)
	Henky P. Langi	Faculty (Experimental Village)
UNCEN - Jayapura	A. Mattulada	Rector
	Ali Bungassaw	Rector II
	Max Rumampuk	Rector III
	Moh. Idris	Dean of Agriculture
	Aminuddin Ponulele	Director of KKN
	Murniati Saloko	Komisaris BKS
Monokwari	Rudy C. Tarumingkeng	Rector
	August Kafiari	Rector I
	Koesno	Rector II
	Silas Antorh	Rector III
	Frans Wanggai	Dean of Agriculture
	Soenarto	Director of Experimental Farm
	Karafir	Asst. Dean Education
	Komsary	Asst. Dean Student Affairs

Summary of SeminarsMEMORANDUM

TO: R. Burl Yarberry
FROM: William P.A. Scheer
DATE: September 29, 1983

On September 28, 1983, from 9:00 a.m. - 12:00 noon, a seminar was held with faculty members of the PKK-IKIP at their administration building in Ujung Pandang.

William Scheer, Senior Advisor from Washington State University, discussed Extension program areas and methods used in the State of Washington. Program planning and evaluation procedures were presented in considerable detail.

The seminar was attended by sixteen teaching faculty members. Messrs. Aki Malla and Abdul Rasyid served as interpreters.

The interest expressed by the participants is summarized as follows:

1. There is a definite need to formulate the Extension mission of IKIP in the areas of Home Economics and Nutrition.
2. The use of properly motivated volunteers, trained by the PKK faculty, appears to be a viable option in Home Economics Extension programming. If well administered, such an approach would allow the faculty to remain on campus as well as serve as a multiplier effect in extending information to the general public or specific audiences. A pilot program is suggested.
3. Considerable improvements can be made in the PKK program to make it more educational for the students and more effective in meeting the needs of rural people. Establishing priority needs and using analytical procedures in program planning and evaluation will help accomplish such a change. Students should be given credit only for acceptable work.

cc: Sekretaris BKS
Dr. Martin Waananen, WSU

MEMORANDUM

TO: R. Burl Yarberry
 FROM: William P.A. Scheer
 DATE: October 13, 1983

On October 10 and 11, 1983, from 10:00 a.m. - 12:00 noon, seminars were held with faculty members of the University Pattimura at their administration building in Ambon. William Scheer, Senior Advisor from Washington State University, discussed Extension program planning and reporting procedures used in the State of Washington.

The first seminar was attended by 16 teaching and administration faculty members. The second seminar was attended by 18 members of the teachers college (IKIP) faculty, including 8 females. Planning and report forms were used as illustrations.

The interest expressed by the participants is summarized as follows:

1. There is a definite need to formulate the Extension mission (service to the people) of the University, especially the KKN and PKK programs. Dr. Nanere, Rector I, expressed concern in assuring proper needs assessments and program planning in reforestation and rural development of Seram. He suggested that an advisor from WSU stay in Ambon for several weeks and assist in formulating needs and program development.
2. Several participants asked that an actual sample of a WSU Annual Plan of Action and Narrative Report be sent to them as an example to help implement their own planning and reporting procedures.
3. Requests were made for a sample package of WSU Extension home economics bulletins.
4. Considerable interest was expressed regarding the 4-H program. Discussions followed regarding the feasibility of incorporating such a program into the KKN projects.

Suggestions

1. BKS members formulate Extension program needs and report these at a future joint meeting. Common and local needs can thus be determined and summarized. Such needs assessments could help serve as a basis and justification for future GOI, US-AID and WSU cooperative programming. Development and/or strengthening University Extension programs will provide extra impetus to increasing agricultural productivity.
 2. BKS members consider standard planning and reporting procedures based on the WSU Cooperative Extension format. This would be applicable not only to Extension projects, but also to various institutional upgrading projects. Such procedures would strengthen accountability.
- cc: BKS/T Secretary
 Dr. Martin Waananen

MEMORANDUM

TO: R. Burl Yarberry
FROM: William P.A. Scheer
DATE: October 15, 1983

On October 14, 1983, from 9:00 - 11:00 a.m., a seminar was held with graduate students and faculty members of the University of Hasanuddin at the campus administration building near Ujung Pandang.

William Scheer, Senior Advisor from Washington State University, discussed program planning and reporting procedures used by Cooperative Extension in the State of Washington. Dr. A. Karim Saleh (economist) served as facilitator. The seminar was attended by 45 people including 7 females. Planning and report forms were used as illustrations.

The keen interest expressed by the participants is summarized as follows:

1. There is a definite need to formulate and adopt standard analytical procedures in University Extension programming.
2. Reference was made to the GOI Repelita and their lack of properly measuring and evaluating levels of change. This lack in turn affects the soundness of the next Repelita.
3. Considerable interest was expressed regarding the 4-H program and how it functions.
4. A request was made for a sample package of WSU Extension home economics bulletins.
5. Proposals were made for follow-up sessions to discuss in more detail what evaluation processes are available to measure various levels of change in audiences.

Suggestion:

It appears that follow-up sessions in program planning and reporting are in order. WSU may explore how this could be arranged at the BKS level and what personnel input would be appropriate to accomplish such educational programming.

MEMORANDUM

TO: R. Burl Yarberry
FROM: William P.A. Scheer
DATE: October 20, 1983

On October 19, 1983, from 10:00 a.m. - 12:00 noon, a seminar was held with agriculture students and faculty members of the University of Lambung Mangkurat at the agriculture campus in Banjarbaru.

William Scheer, Senior Advisor from Washington State University, discussed program planning and reporting procedures used by Cooperative Extension in the State of Washington. Dr. Ismet Ahmad, dean, and Dr. G. Sarbini, Experimental Farm coordinator, served as facilitators. The seminar was attended by 150 persons including 40 females. Planning and report forms were used as illustrations.

The interest expressed by the participants is summarized as follows:

1. Many questions were directed toward the concepts used in planning and reporting. Students considered the procedures as outlined quite useful, since many will be employed by various branches of government service.
2. The need for defining University Extension was expressed.
3. Several questions were asked regarding reforestation programs in the U.S.A. and what methods could be used to improve reforestation programs in Indonesia.

Following the seminar an introductory plant pathology slide and tape set was shown to 25 faculty and students to determine its usefulness in their teaching program.

Suggestion:

Introductory slide and tape series in Plant Pathology and Entomology be duplicated at Washington State University and sent to BKS members for their use.

MEMORANDUM

TO: R. Burl Yarberry
FROM: William P.A. Scheer
DATE: October 26, 1983

On October 24, 1983, from 4:00 - 6:00 p.m., a seminar was held with College of Agriculture students and faculty members of the University of Mulawarman in Samarinda.

William Scheer, Senior Advisor from Washington State University, discussed Extension program and reporting procedures used in the State of Washington.

The seminar was attended by 115 students and faculty, including 25 females. Also in attendance were four administrators of the Department of Agriculture Extension. Mr. Roepang, Assistant Director of BPPM, served as facilitator.

The interest expressed by the participants is summarized as follows:

1. Several faculty members indicated that similar planning and report forms as shown could be used by students in the KKN program.
2. Interest was expressed in more detailed analysis of the levels of change in audiences.
3. Reference was made to reforestation programs. Slash and burn practices appear to be too intense and Extension programs should attempt to deal with that problem by placing agents in the areas of concern.

MEMORANDUM

TO: R. Burl Yarberry
 FROM: William P.A. Scheer
 DATE: November 9, 1983

On November 3, 1983, from 9:00 a.m. - 12:00 noon, a seminar was held with faculty members of IKIP and UNSTRAT Universities at the IKIP Conference Hall in Manado.

William Scheer, Senior Advisor from Washington State University, discussed program planning and reporting procedures used by Cooperative Extension in the State of Washington. Planning and report forms were used as illustrations.

The seminar was attended by 65 faculty members, including 15 females. Dr. Turang, Experimental Village's Coordinator, served as facilitator.

The keen interest expressed by the participants is summarized as follows:

1. Much interest was expressed in the Extension volunteer concept. It was thought that it might work in the Manado area.
2. Many questions were related to the Experimental Village setting near Tomohon. How to overcome apathy and motivate people was of great concern. It was explained that soil and climatic conditions are so ideal that there is little challenge left.
3. It was evident that the IKIP and UNSRAT faculty are eager to tackle society problems through University Extension programs.
4. Department of Agriculture Extension programs appear to be not very effective because of under staffing.
5. Reference was made to a previous BKS meeting with discussions regarding the use of AID planning and report forms.
6. Dr. Turang suggested that the next BKS meeting agenda include discussions about University Extension programming.
7. It was suggested that WSU visitors be encouraged to present seminars when they visit BKS locations.

Suggestion

Seminars improve WSU visibility and public relations with BKS members. Faculty should be encouraged to present seminars in their subjects of expertise.

MEMORANDUM

TO: R. Burl Yarberry
FROM: William P.A. Scheer
DATE: November 10, 1983

On November 7, 1983, a seminar was held with students and faculty members of the University Tadulako in the large meeting hall on the Palu Campus.

William Scheer, Senior Advisor from Washington State University, discussed program planning and reporting procedures used by Cooperative Extension in the State of Washington.

The seminar was held in conjunction with the ceremonies leading into the three-month rural village Extension work obligation. There were 150 individuals in attendance, including 35 females. Planning and report forms were used as illustrations. Mr. Manganti served as facilitator and interpreter.

The interest expressed by the participants is summarized as follows:

1. It was felt that the session was quite appropriate since it was held at the opening ceremonies of the student KKN program.
2. Much interest was expressed in bottom up planning as presented in various examples during the seminar.
3. Considerable discussion evolved regarding the measurement of various levels of change in audiences.

MEMORANDUM

TO: R. Burl Yarberry
 FROM: William P.A. Scheer
 DATE: November 17, 1983

On November 15, 1983, from 9:00 - 11:00 a.m., a seminar was held with College of Agriculture students and faculty of the University of Cenderawasih in Manokwari.

William Scheer, Senior Advisor from Washington State University, discussed Extension programming and reporting procedures used in the State of Washington.

The seminar was attended by 65 students and faculty members, including 8 females. Many of the students will pursue careers in various government services. Planning and report forms were used as illustrations. Mr. Frans Wanggai, Dean of the Agriculture faculty, served as facilitator.

The interest expressed by the participants is summarized as follows:

1. There was considerable discussion about the KKN program and how it could become more effective. Suggestions were made to better train the students for their three-month work task in a village setting.
2. Much interest was expressed in volunteer programs and how it might work in rural areas.
3. Several questions were directed toward community resource development programs. Citizen participation in dealing with issues was of special interest.

Suggestion

The KKN program could possibly become more effective if specific tasks in village work could be determined early so that the student can adequately prepare for his or her assignment during the last academic year. Certain programs, which would require a long term effort, could be written up as such and be contributed to by different students from year to year.

Communication of New Ideas

1. A package of superior vegetable seed varieties was delivered to the Dean of the College of Agriculture at UNSRAT, Manado. Since no vegetable variety testing program is in existence, it was agreed that such a project was desirable for UNSRAT to undertake. These varieties will be planted at various elevations and their performance evaluated. Contact will be maintained with Washington State University to acquire seed for additional vegetable crops and/or varieties.
Such a project is ideally suited for UNSRAT because of high soil fertility and large areas of higher altitude land. A thorough vegetable testing program could substantially improve agricultural productivity in the region.
2. In driving through the mountainous areas southwest of Manado, it was noticed that large sections of clove plantations in certain localities were suffering from severe dieback. Parasitic causes for this condition have been discounted. The advisor, because of his experience with boron deficiencies, was able to establish that the symptoms closely correlate with symptoms observed in other crops in the U.S.A. Soil and foliar samples have been obtained by the College of Agriculture at UNSRAT and will be sent to Washington State University for analysis to help confirm the field diagnosis. Quarantine restrictions for U.S. entry of soil samples may be a problem.
Correction of the clove dieback could bring thousands of hectares of cloves back to full production.
3. Discussions were held with appropriate personnel at various experimental farm sites. Ideas were exchanged regarding general philosophy, facilities, plant nutritional requirements, pest control and miscellaneous other items of concern.
4. Discussions were held at Experimental Village locations. Emphasis was placed on the importance of demonstration gardens. For example, new vegetable varieties resulting from the program mentioned above under No. 1 could be demonstrated at the Experimental Village site by key farmer cooperators.

EVALUATION:Seminars

1. Large numbers of individuals attending as evidenced by the results (640 total participants).
2. Interest expressed as evidenced by one to two-hour discussion periods.
3. Many positive comments received from the audience after the sessions.
4. Positive comments received by the Chief of Party from seminar participants.
5. Suggestions made by University faculty to make a discussion of Extension programs part of the agenda for the next BKS meeting.

FUTURE IMPLICATIONS:1. Extension Programming

Since awareness and interest have been created regarding the importance of uniform program planning and reporting, future WSU/BKS cooperative activities may be directed to help implement uniform reporting procedures.

This would accomplish the following:

- a. Improved internal accountability
- b. Better rapport with the Ministry of Education
- c. Better opportunities to promote the importance of higher education
- d. More leverage to help secure funding.

Dr. Nanere, Rector I at UNPATTI in Ambon, asked for assistance in needs assessment and program planning regarding reforestation and rural development of Seram. He suggested that an advisor from WSU stay in Ambon for several weeks to assist in formulating needs and program development. It should be emphasized that efforts need to be made to coordinate University and Ministry of Agriculture Extension objectives in order to minimize duplication of efforts.

2. Networking

The introduction of new ideas and the requirement for follow-up through individual contacts points out the importance of networking. The value of such a system should not be underestimated. It should be stimulated and allowed to become an integral part of WSU/BKS cooperation, even after the the project has terminated.

3. Experimental Farms

There appears to be some confusion about the purpose of experimental farms. Several of the sites have been acquired because they were available and not because a particular purpose had been established. The sequence of priority in teaching, research and Extension should be determined prior to acquiring the site(s). Two major concerns stand out.

- a. The locations at UNLAM, UNMUL and UNSRAT are so far removed from campus that it would be difficult to have any control over trials that would be conducted.
- b. No soil testing facilities are available at any of the institutions. Availability of at least one facility within the BKS group is a basic requirement. This concern has been expressed by all agriculture faculties visited.

Thus WSU assistance in establishing soil testing facilities is a basic requirement if further input in the development of experimental farms is considered.

Note: It is understood that UNPATTI in Ambon will acquire an assortment of laboratory equipment for soil testing from the Dutch government some time in the near future. Aid for training in equipment use will also be provided.

UNCEN at Monokwari has excellent facilities and land resources for agricultural experimentation. It should be determined what WSU resources could be expended to provide assistance in developing the great potential that exists there for leadership in the agricultural development of Irian Jaya.

4. Instruction in Agriculture and Home Economics

- a. Considerable interest was expressed in an introductory Plant Pathology slide series with audiotape which was shown at UNLAM in Banjarbaru. Such slide series are very useful as a teaching aid in various subject matter areas, but also in the development of English language skills. It should be determined what slide series would be appropriate for use by the BKS institutions so that copies could be allocated.
- b. Interest was expressed at all seminars for copies of Extension home economics bulletins for use in teaching and in development of university brochures for the PKK program. The literature would also be useful in the development of English language skills.

A sample package of Cooperative Extension home economics bulletins should be sent to the Home Economics Department of each BKS institution.