

Southeast Asian Ministers of Education Organization

1997



S E A M E O
R e s e a r c h
& D e v e l o p m e n t
A c t i v i t i e s

1998

1997 List of SEAMEO Researches

Compiled and published by the
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(400/August 1998) Secretariat/RES/1998

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INTRODUCTION

In 1997, a number of SEAMEO's research and development activities were conducted to support policy and decision-making in the macro-level. There was also a remarkable effort in broadening the organization's clientele by opening up research and expertise to the private sector and other international organizations.

This document lists both completed and on-going researches during the previous fiscal year. If you require further information, please contact the relevant Centre. All contact details are listed in the directory.

The SEAMEO Secretariat and the SEAMEO Centres are skilled at providing specific research and development assistance in fields as diverse as tropical biology (SEAMEO BIOTROP), educational innovation and technology and non-formal education (SEAMEO INNOTECH), education in science and mathematics (SEAMEO RECSAM), language education (SEAMEO RELC), higher education (SEAMEO RIHED), graduate study and research in agriculture (SEAMEO SEARCA), performing, archaeology and fine arts (SEAMEO SPAFA), tropical medicine and public health (SEAMEO TROPMED), human resource development in Indochina (SEAMEO RETRAC), vocational and technical education (SEAMEO VOCTECH) and distance education (SEAMEO SEAMOLEC).

If you have needs that you feel we might be able to help you with, please contact your local SEAMEO Centre or the SEAMEO Secretariat.

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mahidol/tm/h-tromed.htm](http://www.mahidol.ac.th/mahidol/tm/h-tromed.htm)

COMPLETED RESEARCHES

SEAMEO BIOTROP

Effect of Scleroderma sp. Mycorrhizal fungi on the growth of ten selected dipterocarps species

Air-tight Storage of Maize; Its Effect on Seed Viability, Fungal Infection and some Chemical Properties

Integrated Control of Chromolaena odorata, emphasizing the classical biological control

(3 years). With the Australian Centre for International Agricultural Research (ACIAR)

Establishment of Waterhyacinth Weevil, Neochetina bruchi

SEAMEO INNOTECH

Rapid Appraisal of the Multigrade Programme in Philippine Education

Findings identified the core of an effective multigrade programme which relies on curriculum, classroom management, and instructional organization. This would encourage students to become more responsible for their own learning and widely allow peer tutoring.

With UNICEF

SEAMEO RECSAM

The Interest, Trend and Readiness of Malaysian Elementary Science Teachers Towards the Use of Computer Software for Science Instruction

With PIER Project, and Ministry of Education, Malaysia

Needs Assessment of Teachers' Teaching-Learning in Science and Mathematics Education in SEAMEO Member Countries

Regional Information Studies in Science and Mathematics Education

Scientific Creativity: A Study of Secondary Students' Inclination to Scientific Research in Penang, Malaysia

SEAMEO RELC

Teaching the Recount Genre and Process Approaches: A Case Study of Action Research in a Singapore Secondary School Language Classroom

A school-based study on the simultaneous use of the process and genre approach in writing instruction.

November 1996 to April 1997 (5 months) With Chua Chu Kang Secondary School

SEAMEO RIHED

Higher Education in Cambodia, Lao PDR, and Viet Nam

Collaborative measures were formulated to enhance the quality, quantity, relevance, and effective governance of higher education in Indochina with a proposed model for sub-regional cooperation.

***Handbook on Degrees, Diplomas, and Other
Certificates Granted by Higher Education
Institutions in Asia and the Pacific***

Country reports from SEAMEO Member Countries and non-SEAMEO countries in Asia and the Pacific.

With UNESCO PROAP

SEAMEO SEAMOLEC

***Survey on the Management of Open Learning and
Distance Education in Indonesia***

February 1997. With the Indonesian Open University (UT), PUSTEKKOM, and IDLN

***Needs Assessment for Indonesian Open Junior
Secondary schools (OJSS)***

A basis for developing English instructional programs to improve students' mastery of English. With DETE (Australia) and PUSTEKKOM

Needs Assessment for English Instructional Programmes

Conducted to improve teachers' competence in teaching English to OJSS students.

With DEETYA (Australia) and PUSTEKKOM

SEAMEO SEARCA

Investment Profile Study (IPS) in Ned, South Cotabato

The project provided the necessary database for agribusiness development in the area. It also assessed the human, natural, economic resources, infrastructure and support services in the area and identified gaps as well as opportunities in the agribusiness sector.

May to July 1997 (2 months). With the Department of Agrarian Reform (DAR), Philippines

Market Study for Garlic, Onion and Potato in Ned, South Cotabato

The project assessed the level and nature of demand for garlic, onion and potato to be grown in Ned. It also identified the potential markets and alternative marketing schemes for these crops and formulated recommendations that will help

individual farmers and farmers' organizations come up with appropriate business decisions related to the marketing of these crops.

May to July 1997 (2 months). With DAR

The Jalajala Cooperative Experience: Cases and Patterns

The project documented the interaction among primary cooperatives in relation to the Rice Processing Complex(RPC) under the management of the Integrated Jalajala Federation of Cooperatives(INJAFEDCO). It also identified projects for future collaboration between SEARCA and the municipality of Jalajala.

January to December 1997 (1 year). With DAR, INJAFEDCO, Municipal Government of Jalajala

Training and Institutional Needs Assessment of the Palawan Tropical Forestry Protection Programme and Partners(PTFPP)

The Training and Institutional Needs Assessments was conducted to determine the actual educational, training and institutional needs of all present and future participants to the overall effort of protecting Palawan's natural resources. It espoused the following features: multi-disciplinary approach, which features a team of varied expertise and disciplines with relevance to the nature of PTFPP activities; multi-sectoral, covering all major stakeholders including local government units, government line agencies, NGOs, peoples

organizations and the Palawan Council for Sustainable Development Staff (PCSDS); and participatory, which puts emphasis on the involvement of all concerned sectors in all stages of the assessment procedures.

September 1996 - June 1997 (9 months)

Evaluation and Assessment of Calancan Bay Rehabilitation Programme(CBRP)

The CBRP was implemented in Calancan Bay, Marinduque, a coastal embayment that had been the dumping area of Marcopper Mining Corporations's mine tailings. The evaluation and assessment project reviewed secondary information and conducted a socioeconomic survey of and meetings with communities affected by the dumping of mine tailings and interviewed officials and personnel of involved organizations and institutions. It conducted a vegetation survey of CBRP terrestrial components, including microclimate change, flora and fauna inventory, plantation survival and identification of unstable and natural regeneration areas as well as underwater measurement impact of CBRP aquatic components. An institutional and policy analysis was also administered.

September 1996 to March 1997 (6 months). With the University of the Philippines Los Banos (UPLB)

***Analysis of Policies and Policy Instruments
Relevant to the Management of Fisheries/Aquatic
Resources with Emphasis on Low Level Issues and
Concerns***

The eight-month research project funded by the International Center for Living Aquatic Resources Management (ICLARM) aimed to analyze existing policies, rules and regulations for gaps, overlaps and inconsistencies; examine existing relationships between and among national and local organizations to determine the most appropriate arrangements; and recommend measures and alternatives for policy enrichment and inter-organizational complementation relevant to sound management of fisheries/aquatic resources.

July 1996 - March 1997 (8 months)

***Asian Pacific Information Network on Medicinal
and Aromatic Plants (APINMAP)***

APINMAP is a voluntary cooperative program for countries in Asia and the Pacific region. Its objective is to promote information exchange in the field of medicinal and aromatic plants.

July - December 1996 (5 months). With organizations from Australia, China, India, Indonesia, Republic of Korea, Malaysia, Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Anadolu and Viet Nam

Corn Production Sustainability Enhancement Project

This two-year project aimed to develop technologies and strategies for corn areas in order to maximize the conservation of soil nutrients, water and protect environmental quality, improve and sustain farm productivity and income of corn farmers and devise mechanism to disseminate such technologies/strategies.

January 1996 to December 1997 (2 years). With Department of Agriculture - Bureau of Agricultural Research, Philippines

KASALIKASAN Programme Pre-project Completion Impact Evaluation

The general objective of this pre-project completion evaluation was to determine the status of the target Integrated Pest Management (IPM) project implementation and its impact to its target beneficiaries.

Its specific objectives were to :

- i) determine the effectiveness of the IPM programme in relation to changes in farming practices and farmer decision making processes;
- ii) assess economic changes through quantifiable indicators related to farming practices and farmer decision-making processes, particularly in relation to crop yield, production costs and profit margins;

iii) gain insights on environmental and psycho-social changes brought about by and identifiably related to the implementation of the programme, including the effectiveness and contribution of the programme in building self-reliant farming communities; and

iv) identify areas for improvement and strengthening of the IPM Programme particularly in the areas of project management on all levels (national, regional, provincial and municipal), general training approach undertaken during Farmer Field School (FFS), Training of Trainers (TOT) Specialists training and field trainers, programme sustainability (fund mobilization, continuous innovation and education, beneficiaries utilization, and political will) and institutionalization.

The environmental impact component aimed to determine whether the programme has effectively enhanced the ecological knowledge and IPM skills via the FFS, examine the contribution of FFS in the promotion of healthy agroecosystems, determine the role of FFS in improving the safety and health conditions of farming families in the countryside and give recommendations on how the programme can be enhanced to meet its environmental objectives.

March - December 1997 (9 months). With the Department of Agriculture, Philippines

Evaluation Study of Multi-Livestock Dispersal and Loan Programme

The project aimed at: i) providing additional income to farmers, ii) increasing the country's breeder base; iii) improving the genetic make-up of the local stock through upgrading; and iv) improving the nutritional status of the people.

January - August 1997 (7 months). With the National Agricultural and Fishery Council, Philippines

All China Federation of Supply and Marketing Cooperatives Project

The technical assistance (TA) aimed to strengthen the institutional capacity of the All China Federation of Supply and Marketing Cooperative(ACFSMC), which is the lead agency in directing policies and cooperative system reforms, to adapt to the ongoing transition to a market-oriented economy in the People's Republic of China(PRC).

A comprehensive study was conducted to: i) review the functions and operations of the Supply and Marketing Cooperatives (SMC) system at the central, provincial, country, and primary (village) levels of cooperative; ii) study and analyze the functions performed by the ACFSMC before and after the economic reforms; and iii) review its roles and policy directions in an open market-oriented environment improving its operational efficiency and its capacity in providing supply and market support services to its members. Services reviewed included credit mechanisms, agricultural pricing policies and investments in marketing

support infrastructure. The study also focused on marketing of agricultural produce.

September 1996 - April 1997 (2 years). With the Asian Development Bank

Livelihood Enhancement Agricultural Development - Technical Impact Evaluation Study

This two-year project aimed to assess the LEAD project components including agricultural and fishery council capability enhancement; farmers exchange; resource conservation; agricultural livelihood; NGO/peoples' organization linkage and assistance; non-traditional commodity/industrial crops assistance; and marketing assistance.

January 1996 - December 1997 (2 years). With the Department of Agriculture-National Agricultural Fishery Council (DA-NAFC), Philippines

SEAMEO TROPMED Network

SEAMEO TROPMED Regional Centre for Community Nutrition (TROPMED/ Indonesia)

There were 30 researches published under SEAMEO TROPMED Indonesia for F.Y. 1997/1998.

Research conducted by SEAMEO TROPMED staff members are as follows:

Lipoprotein (a) profiles in the aged: Nutritional and metabolic study

With the Indonesian National Research Council

Nutritional supplementation to improve immune response and clinical status of active pulmonary tuberculosis patients

With the Indonesian National Research Council

The development and evaluation of six legume-based weaning formulas: A comparative study of fermented and non-fermented legumes

With Agrisource Co. Ltd., Thailand, a representative for USA Dry Pea and Lentil Council (USADPLC) Asia Pacific

Expanded programme for the control of Maternal Anemia

With Ministry of Health, supported by the World Bank

***SEAMEO TROPMED Regional Centre for
Tropical Medicine (TROPMED/
Thailand)***

There were 55 researches published under SEAMEO TROPMED Thailand for F.Y. 1997/1998.

Research conducted by SEAMEO TROPMED staff members are as follows:

The Microbiological status of street foods in Hanoi

***Daily versus weekly iron supplementation,
programmational economic implication for Indonesia***

***Mid-upperarm circumference development and it's
validity in assessment of malnutrition***

***Longitudinal observation of growth of Vietnamese
children in Hanoi Vietnam from birth to 10 years of
age***

***Relative bioavailability in adults of iron from a
soybean product intended for complementary feeding
of infants***

***Effective community intervention to improve
hemoglobin status in preschoolers using once weekly
iron supplementation***

***Parasitological and nutritional situation of
schoolchildren in the Sukaraja district, West Java,
Indonesia***

Anaemia is associated with reduced productivity of women workers even in less physically strenuous tasks

The effect of dietary iron deficiency on the fatty acid composition of plasma and erythrocyte membrane phospholipids in the rat

Functional characteristics of tempe in disease prevention and treatment

The association between BMI & haemoglobin & work productivity among Indonesian female factory workers

***SEAMEO TROPMED Regional Centre for
Public Health (TROPMED/Philippines)***

There were 25 researches published under SEAMEO TROPMED/ Philippines for F.Y. 1997/1998, conducted by the following departments:

Department of Occupational and Environmental Health(3); Department of Epidemiology(1); Department of Medical Microbiology(2); Department of Parasitology(7); Department of Public Health Administration(6); as well as Distance Education Modules(6)

The following Doctoral Dissertation for Dr. Public Health and Masters Theses for Master of Science in Public Health were published:

The Effects of Dental Health Education Intervention on PTA Members in Improving the Dental Health in Public Elementary School Children in West Jakarta

The role of CDD Programme and Various Factors in the improvement of the Mothers' Management and Prevention of Diarrhea

Birth Outcome and Iodine Status of Mothers in Cavite

Correspondence Analysis of Contingency Tables: An Application on Alcohol/Marijuana Use Among College Students in the Philippines

***Estimated Surface Areas and Volumes of the Terms
New-Born: Indices of Neonatal Survival***

***Distribution of Correlates of High-Waist-Hip Ratio
in Adults in Selected Areas in Sto. Tomas, Batangas***

***Factors Associated with Filariasis Infection in
Sorogon Province, Philippines***

***FLANE as a Strategy in Educating Mothers: Its
Effects on the Nutritional Status of Preschool
Children***

SEAMEO VOCTECH

SEAMEO VOCTECH: Onwards to the Next Millennium

Literature search on the present scenario of SEAMEO Member Countries in which current data on economic, demographic, employment and education were gathered. A survey was completed by Member Countries, Associate Member Countries, and other affiliates to gather information of emerging global and regional trends.

ON-GOING RESEARCHES

SEAMEO INNOTECH

School Inventing Programme (Project INVENT)

Developing and implementing a research-based school programme and training course for teacher trainers on creative and inventive thinking.

4 years

Generalizing and Reinforcing the Ability to Solve Problems (Packaging Project GRASP)

Packaging of problem-solving exercises into a problem-solving kit with manual for implementation and demonstrating video for Technology and Home Economics (THE) subject, third year secondary level.

3 years

Case Studies of Administrators of Education in Southeast Asia (Project CASES)

Undertaking and developing two case studies of successful school principals in each of the SEAMEO Member Countries to come up with a regional theory of educational administration/management.

2 years 8 months

School-Based Evaluation (SBE) Distance Education

Developing school personnel's skills in planning and implementing school-based evaluation in their respective schools and utilizing results for developing school improvement programmes (SIPs) through self-instructional/self-paced learning materials on School-Based Evaluation instructional materials composed of modules, instructional videos, etc. to be delivered through distance learning.

3 years

Competency-based Continuing Education Programme for Teachers Utilizing Distance Education Technologies and Materials (Project COMPETE)

Designing, developing and trying out competency-based continuing education programme for teachers in two SEAMEO Member Countries utilizing distance learning as the mode of delivery.

3 years. With Viet Nam and the Philippines

Partnership for Accelerated Learning (Project PAL)

Accelerated learning in SEAMEO Countries through partnerships with schools which serve as laboratories and demonstration centres for innovative educational technologies. The Project intends to develop the following: a) a working procedural model of how a principal and his teachers can initiate and sustain desired change in instructional theory and practice through their own collective effort; and b) a dissemination and utilization model of how SEAMEO INNOTECH, working as a partner of a public school, can accelerate the institutionalization of an educational innovation.

SEAMEO SEARCA

Technical Assistance in Agricultural Entrepreneurship in Lao PDR

The project aims to come-up with an agribusiness course or entrepreneurship as part of the agricultural curriculum for National University of Lao (NUOL).

January 1998 to December 1999 (2 years). With the National University of Lao PDR, University of Guelph.

Technology, Trade and Policy Imperatives for International Competitiveness in Corn

Evaluating the current state of productivity and international competitiveness of the Philippine corn industry and recommend technology, trade and policy entry points for a more socially efficient allocation of resources for the sector.

August 1997 to August 1999 (2 years). With the Department of Agriculture, Bureau of Agricultural Research (BAR), Philippines

Jalajala Agro-Industrial Project (JAIDP)

Technical assistance in formulating agro-industrial development plan for Jalajala in identifying suitable crops with large market potential.

January to December 1998 (1 year). With the Department of Agrarian Reform, Integrated Jalajala Federation of Cooperatives (INJAFEDCO), Municipal Government of Jalajala.

Institutionalizing Agro-Industrial Development Programme Planning in Northern Philippines

The project aims to identify institutional building component to effect a sustainable agro-industrial development programme planning in the Northwest Luzon Growth Quadrangle.

January 1998 to January 2002. With the Mariano Marcos State University, Philippines

Development and Evaluation of Sustainable Production Systems for Steeplands

The Project is located at two sites in the Philippines, Jalajala in Luzon and Ned in Mindanao; and three sites in Australia, the Maroochy Horticultural Research Station at Nambour, Queensland and in two farms of private growers. The Project aimed to improve the sustainability and productivity of sloping land farming practices through improved farming systems developed through the identification and integrated

application of the best and most appropriate technologies. It is being funded by the Australian Centre International Agricultural Research (ACIAR).

July 1994 – December 1997. With the Queensland Department of Primary Industries (QDPI), Australia

Improving Smallholder Farming Systems in Imperata Areas of Southeast Asia: A Bioeconomic Modeling Approach (PN 9409)

The project aimed to add substantially to the knowledge base regarding farming systems on *Imperata* grasslands in Southeast Asia; construct bioeconomic models of existing and improved systems; use bioeconomic models to economically evaluate proposed technological, management, and policy changes; and make the models available to collaborating and other institutions.

April 1995 to December 1997; Extended from January 1998 to December 1998. With the Centre for Resource and Environmental Studies (CRES), Australian National University (ANU), Australia and Centre for Agro-Socioeconomic Research (CASER), Bogor, Indonesia.

Economic and Environmental Impacts of Lowland Agricultural Development on Upland Communities in Palawan

The Project focused on two sites in Southern Palawan with a research and an outreach component. The research component used socioeconomic surveys to identify and

quantify economic linkages between upland and lowland communities; patterns of labour and land use on upland and lowland farms; and changes in each of these that arise from lowland irrigation projects. The outreach component, on the other hand, brought the researchers, NGOs, POs, local policy makers and other parties concerned with the development of Palawan in workshops to identify the critical issues in lowland-upland community interactions.

September 1996 – August 1998. With the State Polytechnic College of Palawan (SPCP), University of the Philippines, Los Baños (UPLB) and Local Government Units (LGUs)

ASEAN Integrated Pest Management Knowledge Network Project

The mission of the ASEAN IPM Knowledge Network is to help governments and non-government organizations in the ASEAN region improve the effectiveness of programme implementation by making knowledge sharing easy among the national IPM programmes.

February 1998 – December 2000. With the Department of Agriculture, Philippines

Ned Agro-Industrial Development Project (NAIDP)

NAIDP sought to undertake an integrated development of DAR settlement site in Brgy. Ned, Lake Sebu, South Cotabato. The project aimed to accelerate sustainable agriculture development in the DAR Net Settlement site by

applying the most appropriate technologies and development strategies; test and refine and integrated approach that can be used by DAR to develop its settlement sites throughout the country; and identify minimum requirements in a resettlement site to ensure that present and would be settlers have a fair chance of survival and subsequent development.

January 1993 to December 1997; With the Department of Agrarian Reform (DAR), Local Government Units (LGUs), Philippines.

Imperatives for Trade Competitiveness and Technology Assessment for the Livestock Sector

The project aims to support the GA-LP in its effort of increasing production and reproduction efficiencies, increasing incomes of small and medium-sized livestock farmers, and creation of self-reliant rural institutions like livestock cooperatives.

January 1998 to December 2000

Technology, Trade and Policy Imperatives for International Competitiveness in Corn Project

Evaluating the current productivity and international competitiveness of the Philippine corn industry and recommend technology, trade, and policy entry points for a more socially, efficient allocation of resource for the sector.

September 1997 – August 1998. With the Department of Agriculture-Bureau of Agricultural Research. Philippines

Mango Plantation Production

A feasibility study was conducted considering the organizational set-up, use of appropriate mango technologies, creation of search units and cost benefit analysis among others. Responsible for technical and financial aspect of the mango plantation production concerns. The project also covered: i) reviewing the response of trees to the present cultural management and make recommendations on problems encountered in the plantation management; ii) organization of a research section in the PT Galasari Plantations; iii) provision of basic information needed for proper management of trees; iv) conduct of short term researches; v) formulation of recommendations on required research equipment/materials to be purchased; and vi) updating PT Galasari staff on the basic facts and current technologies in mango plantation through the conduct of seminars/workshop as part of personnel development.

January 1997 – March 1998. With the PT Galasari, Indonesia.

SEAMEO VOCTECH

A Study on the Existing Practices on Certification and Accreditation Systems in VTET in SEAMEO Member Countries

The project hopes to provide comprehensive information on the existing practices on certification and accreditation systems in VTET in SEAMEO Member Countries, and document their common features.

May 1997 to September 1998