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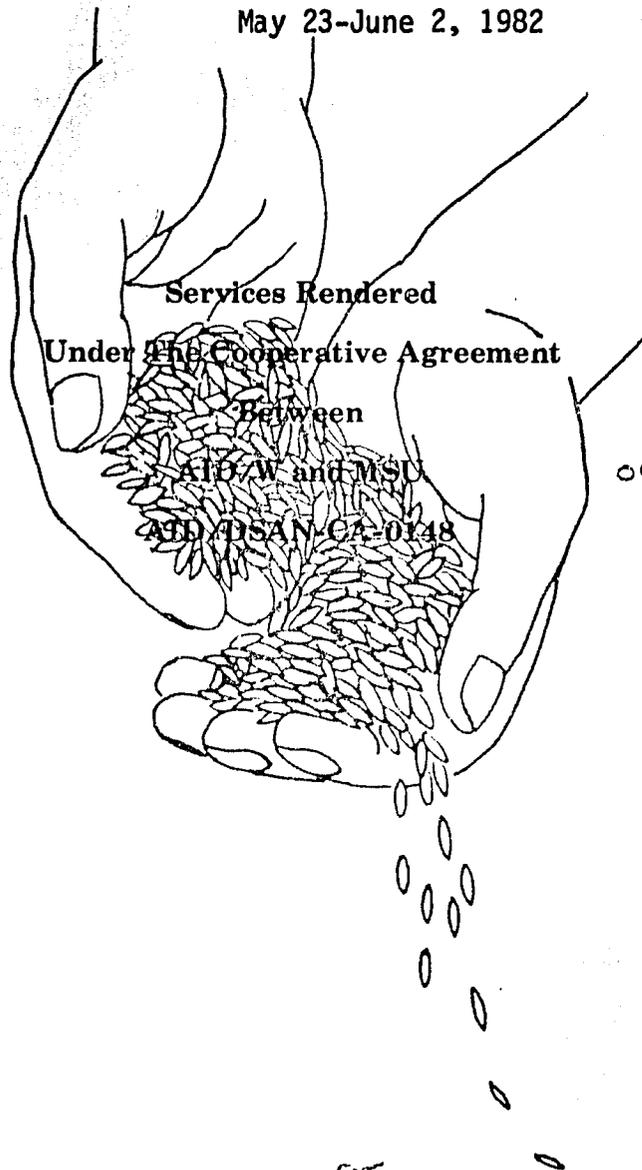
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REPORT TO:  
AID/W, USAID/C  
CIAT

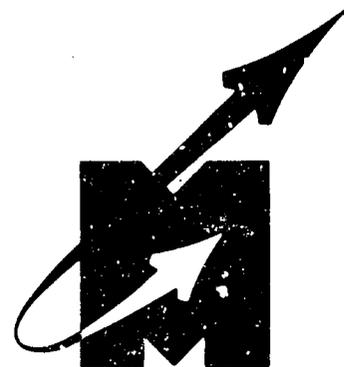
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TECHNICAL ASSISTANCE  
IN  
V INTENSIVE COURSE FOR  
POSTGRADUATE LEARNING  
IN SEED TECHNOLOGY

May 23-June 2, 1982



SEED TECHNOLOGY LABORATORY  
MISSISSIPPI STATE UNIVERSITY  
MISSISSIPPI STATE, MISSISSIPPI



REPORT TO  
AID/W, USAID/C, & CIAT  
on the  
V INTENSIVE POSTGRADUATE TRAINING COURSE  
IN  
SEED TECHNOLOGY

May 23-June 2, 1982

Services Rendered  
Under The Contract Between  
AID/W and MSU  
AID/DSAN-CA-0148

Seed Technology Laboratory  
Mississippi State University  
Mississippi State, Ms. 39762

June 1982

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## REPORT SUMMARY

TITLE: FIFTH INTENSIVE POSTGRADUATE TRAINING COURSE IN SEED TECHNOLOGY

CONTRACT: AID/DSAN-CA-0148 with Mississippi State University

CONSULTANT: Dr. C. Hunter Andrews

PERIOD OF CONSULTATION: May 23-June 2, 1982

The CIAT, AID/LA and USAID/C requested the services of one senior seed technologist from MSU's Seed Technology Laboratory to assist in the presentation of an intensive training course in seed technology to selected participants representing Central and South America and the Caribbean countries. The Project Manager approved the request for these services, and the consultants prepared teaching materials for the assigned subject matter areas. Even though the total course covered an eight week period, April 13 - June 9, the quality control portion was scheduled from May 24 - June 2, 1982.

Twenty-seven participants attended the course and completed the requirements according to CIAT. The participants represented 14 countries (Appendix A). The participants showed continued interest and enthusiasm even during this final segment of the lengthy program.

## ACKNOWLEDGEMENTS

Thanks are extended to Mr. Johnson Douglas and his staff for their efforts in organizing and coordinating the daily program. Their assistance continues to make the CIAT training courses quite effective.

Sincere appreciation is extended to each participant for their excellent cooperation, patience and hard work. Their promptness and daily enthusiasm contributed significantly to the overall success of the course.



A handwritten signature in black ink, consisting of a large, stylized initial 'J' followed by 'CHA'. The signature is written over a faint, horizontal line that appears to be a signature line or a separator. Below the signature, the letters 'J. CHA' are printed in a small, sans-serif font.

REPORT TO  
AID/W, CIAT and USAID/C  
on the  
V Intensive Postgraduate Training Course  
in  
Seed Technology

CIAT - Cali, Colombia

May 23-June 2, 1982

TERMS OF REFERENCE

The AID/W Latin American Bureau, with the concurrence of USAID/C, requested the services of one consultant through the MSU/AID contract (AID/DSAN-CA-0148) for the purpose of assisting in the presentation of a segment of the seed technology training course held at CIAT from April 13 - June 9. The last two weeks of the course emphasized quality control in seed production programs. The AID/DSB Project Manager approved the request for the participation of one MSU Seed Technology staff member, and Dr. C. H. Andrews was nominated by the contractor to provide the technical assistance.

## BACKGROUND

The Seed Unit at CIAT has assumed a major role in organizing and coordinating regional seed training courses in the Latin American Region. Although an initial course was sponsored by ICA in 1977 (held at CIAT), five subsequent courses have been conducted under the auspices of the CIAT Seed Unit.

These programs cover approximately eight weeks to include topics other than seeds. The segments devoted to various seed related areas are distributed at timely intervals during the course to allow for visiting professors to participate.

Interest and enthusiasm for these programs remains quite high, and the excellent facilities and qualified staff of the CIAT Seed Unit provide ideal working and teaching conditions.

## IMPLEMENTATION

This course was officially entitled "V Curso Intensivo de Capacitacion Posgrado En Tecnologia De Semillas" which follows similar CIAT course identification methods. The Seed Unit coordinator, Mr. Johnson Douglas and his staff, developed the detailed schedule after consulting with MSU as to the time and availability of their personnel for teaching various topics.

The Seed Unit is practically completed and laboratory facilities are quite adequate for conducting these training programs. In addition, the numerous assistants provide excellent support, and the program is quite easy to conduct. Such facilities enable the participants to gain the greatest value for the time devoted to the topics.

The last two weeks of the course were devoted to quality control, and Dr. Andrews presented topics on seed development, germination quality control tests and other related topics (Appendix B). Participating instructors in this area also included Ing. Amporo Toro and Ing. Alejandro Mendoza, both from the Colombian Seed Industry.

The CIAT arranged for translation and duplication of the lecture material. The twenty seven participants completed the course, and closing ceremonies were conducted on June 9.

## COURSE EVALUATION

The course was not formally evaluated by the MSU instructor, since he participated only in a support role. Questions were submitted which were included in the overall course evaluation exam. This written examination revealed that most of the participants gained a fairly complete understanding of the course material.

Each participant received bound copies of all lecture material and various exercises which enabled them to return to their respective countries with valuable reference material.

APPENDIX A

List of Participants

<u>Name</u>	<u>Country</u>	<u>Address</u>
Carlos Horacio Capisto	Argentina	Universidad Nacional de Buenos Aires-Facultad de Agronomia
Eduardo Guarachi Guzman	Bolivia	Ministerio de Asuntos Campesinos y Agropecuarios
Diogenes Chavez Salvatierra	Bolivia	Centro de Investigacion Agricola Tropical-CIAT
Neuza Maria da Silva Souza	Brasil	Delegacia Federal de Agricultura na Bahia
Jalcione Pereira de Almeida	Brasil	Cooperativa Regional Triticola Serrana Ltda-COTRIJUI
Luiz Carlos Miranda	Brasil	Empresa Brasileira de Pesquisa Agropecuaria-EMBRAPA
Hector Gustavo Duque Valencia	Colombia	PROACOL LTDA.
Fredy Victoria Lopez	Colombia	ICA-Palmira
Julio Guillermo Amaya Trespacios	Colombia	ICA-Valledupar
Jorge Enrique Suarez Corredor	Colombia	CIA-Bogota
German Perez Restrepo	Colombia	Politecnico Colombiano
Isabel Natalia Salas Torres	Colombia	
Nelson Gomez Arias	Colombia	Universidad del Valle
Marco Antonio Araujo Castillo	Costa Rica	Consejo Nacional de Produccion
Walter Paulo Quiros Ortega	Costa Rica	Oficina Nacional de Semillas
Nelson Anibal Garzon Vasconez	Ecuador	Programa Nacional de Semillas-Ministerio de Agricultura y Ganaderia

<u>Name</u>	<u>Country</u>	<u>Address</u>
Carlos Humberto Aguirre Castillo	Guatemala	Universidad de San Carlos- Facultad de Agronomia
Samuel Humberto Izaguirre Amador	Honduras	Ministerio de Recursos Naturales
Rolando Lainez Corrales	Honduras	Secretaria de Recursos Naturales
Juan C. Molina	Mexico	Colegio de Postgraduados de Chapingo
Ricardo Byrne Gomis	Panama	Comite Nacional de Semillas
David Ricardo Carmona Brown	Panama	Ministerio de Desarrollo Agropecuario-Comite Nacional de Semillas-MIDA
Feliciano Mardonio Carrillo Medina	Peru	Universidad Nacional de San Cristobal de Huamanga
Luis Alcantara Vallejo	Peru	Ministerio de Agricultura del Peru
Luis Emilio Perez Mejia	R. Dominicana	Secretaria de Estado de Agricultura
Aly Juvenal Costero Rojas	Venezuela	Fondo Nacional de Investi- gaciones Agropecuaria- FONAIAP
Barsell Salvador Balladores	Nicaragua	

APPENDIX B

Course Outline  
May 24 - June 1, 1982

<u>Date &amp; Time</u>	<u>Activity</u>	<u>Instructor</u>
5/24 0900	Seed Germination	H. Andrews
1130	Physiology of Germination	H. Andrews
5/25 0900	Morphology and characteristics of Seeds & Seedlings	H. Andrews
1400	Practical Exercise-- Morphological Characteristics of Seeds & Seedlings (Group A)	H. Andrews
1500	Practical Exercise-- Morphological Characteristics of Seeds & Seedlings (Group B)	H. Andrews
5/26 0800	Development & Maturation of Seeds	H. Andrews
1130	Tolerance in Seed Testing	H. Andrews
5/27 0800	Practical Exercise-- Seed Testing Tolerance	H. Andrews
5/28 0800	Environmental Conditions of the Soil in Relation to Seed Germination	H. Andrews
5/31 0800	Vigor Testing - Definition and Tests	H. Andrews
0900	Tetrazolium Testing	H. Andrews
1130	Practical Exercise-- Preparation for TZ	H. Andrews

<u>Date &amp; Time</u>	<u>Activity</u>	<u>Instructor</u>
1400	Practical Exercise-- TZ Testing (Group B)	H. Andrews
6/1 1130	Practical Exercise-- Preparation for TZ	H. Andrews
1400	Practical Exercise-- TZ Testing (Group B)	H. Andrews
6/2 0730	Depart for MSU	