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UNIVERSITY OF MIAMI SUB-CONTRACT
January 1, 1983 - December 31, 1983

Jon B. Mann
Analytical Training and Quality Control

cc: Drs. Smith, Collier, Davies, and Pfaffenberger, Calvert

- January Wrote to U.S.D.A. for sample entry permits, purchased shipping containers and prepared for analyzing food samples from Paraguay. See memo to Collier dated 1/10/83.
- Method development for cholinesterase inhibition determination suitable for use in developing countries. See memo to Collier dated 3/1/83.
- Prepared box of supplies necessary for cholinesterase training proposed for Jordan. See memo to Smith Dated 1/10/83.
- Feb. 7 Visit by Dale Bottrell - Discussed his proposed trip to Barbados. See memo to Smith dated 2/8/83.
- Feb. 8-17 Preparation for Seminar/Workshop in Cochabamba, Bolivia.
- Feb. 18-26 Attended Seminar/Workshop in Cochabamba - gave talks on: 1. Chemodynamics; 2. Formulation and Application of Pesticides; 3. Pesticide Residues; and 4. Persistence and the Problem of Pollution. Also acted as consultant to the workgroup dealing with pesticide residues. See memo to Smith dated 3/1/83.
- March Received permit from U.S.D.A. for sample entry into U.S.. Sent shipping boxes to Paraguay.
- March As per instructions by Collier, worked on a method for Paraquat capable of
April detecting sub-acute exposure levels. More time needed to complete study.
- Wrote to companies and received standards of all organophosphate pesticides available in the world. Needed for preparation of gas chromatographic retention times for use by developing countries.
- May 9-19 Evaluation of Quality Control sample UM-015, critiques written and reports mailed to participating laboratories.
- May 16-20 Preparation, packaging and mailing of Q. C. sample UM-016.
- May 27-
June 5 Joe Danauskas gave training in cholinesterase inhibition testing in Dominica as referenced in the memo to Smith dated 2/8/83 using the materials indicated in said memo. Samples of human blood, fruit and vegetables were collected and brought to Miami for analysis of pesticide residues.
- June 6-16 Analysis of samples collected in Dominica. See memo to Collier dated 6/26/83.
- June 8&10 Training of visitor from Guyana. See memo to Smith dated 6/21/83.
- June 9 Training of visitors from Africa and Indonesia. See memo to Smith dated 6/22/83.
- June 22-24 Training of visitor from Guyana. See memo to Smith dated 7/14/83.
- July 17-20 Attended Florida Department of Agriculture meeting and gave a paper on "Adapting Methods to Meet Changing Needs." Major topic of the meeting was Aldicarb analysis.

July 17-
Aug. 11 Mr. Joseph Danauskas traveled to Sudan to develop an exposure assessment scheme. (See evaluation team report.)

July 20-
Sept. 11 Working with methods for the analysis of Aldicarb in urine, water, soil, etc.; recovery studies; storage studies to allow for shipping time.

Aug. 11-
Sept. 11 Purchasing, packing and sending supplies to Sudan for the Aldicarb exposure assessment.

Sept. 7-9 Visited Union Carbide. See trip report dated Sept. 15, 1983.

Sept. 9-
Nov. 12 Mr. Joseph Danauskas went to Sudan to begin exposure assessment by collecting blood, urine, air, water and soil samples.

Sept. 12-
Oct. 12 Training course in pesticide residue analysis for participant from Nicaragua (participant did not receive letter changing dates of course).

Nov. 7-
Dec. 16 Training course in pesticide residue analysis for one participant from Guatemala and one participant from St. Lucia.

Dec. 19-
Present Analyzing samples from Sudan.

Jan. 1, '83
Dec.31, '83 Mailed copies of the "Manual for Training in Pesticide Analysis" (2 French, 15 English and 12 Spanish).

Normal correspondence for technology transfer of methods, ideas, standards, etc.

Evaluations of late Q. C. sample reports as they were received in Miami.

Started evaluating reports from Q. C. sample UM-016.

SUMMARY

Held two (2) - six-week training courses in Miami on pesticide residue analysis for a participant from Nicaragua, one from Guatemala and one from St. Lucia. Gave a one-(1) week training course in cholinesterase inhibition testing for four participants in Dominica upon request of A.I.D. mission. Short term training given to visitors in Miami (one from Guyana, two from Africa and two from Indonesia). Gave four talks and acted as consultant to work group on pesticide residues at Workshop/Seminar in Cochabamba, Bolivia.

Mailed out 29 copies of the "Manual For Training in Pesticide Analysis (two French, 15 English and 12 Spanish). Mailed out two quality control samples to 46 laboratories in 23 countries.

Analyzed ten fruit and vegetable samples and 21 blood samples from Dominica for pesticide residues. In addition the blood serums were determined for cholinesterase activity. Began analyzing samples collected in Sudan, Africa for Aldicarb exposure assessment.

Developed a method for cholinesterase determination to facilitate use in developing countries. Worked on method for determining low level exposure to Paraquat. More time needed to develop this method.