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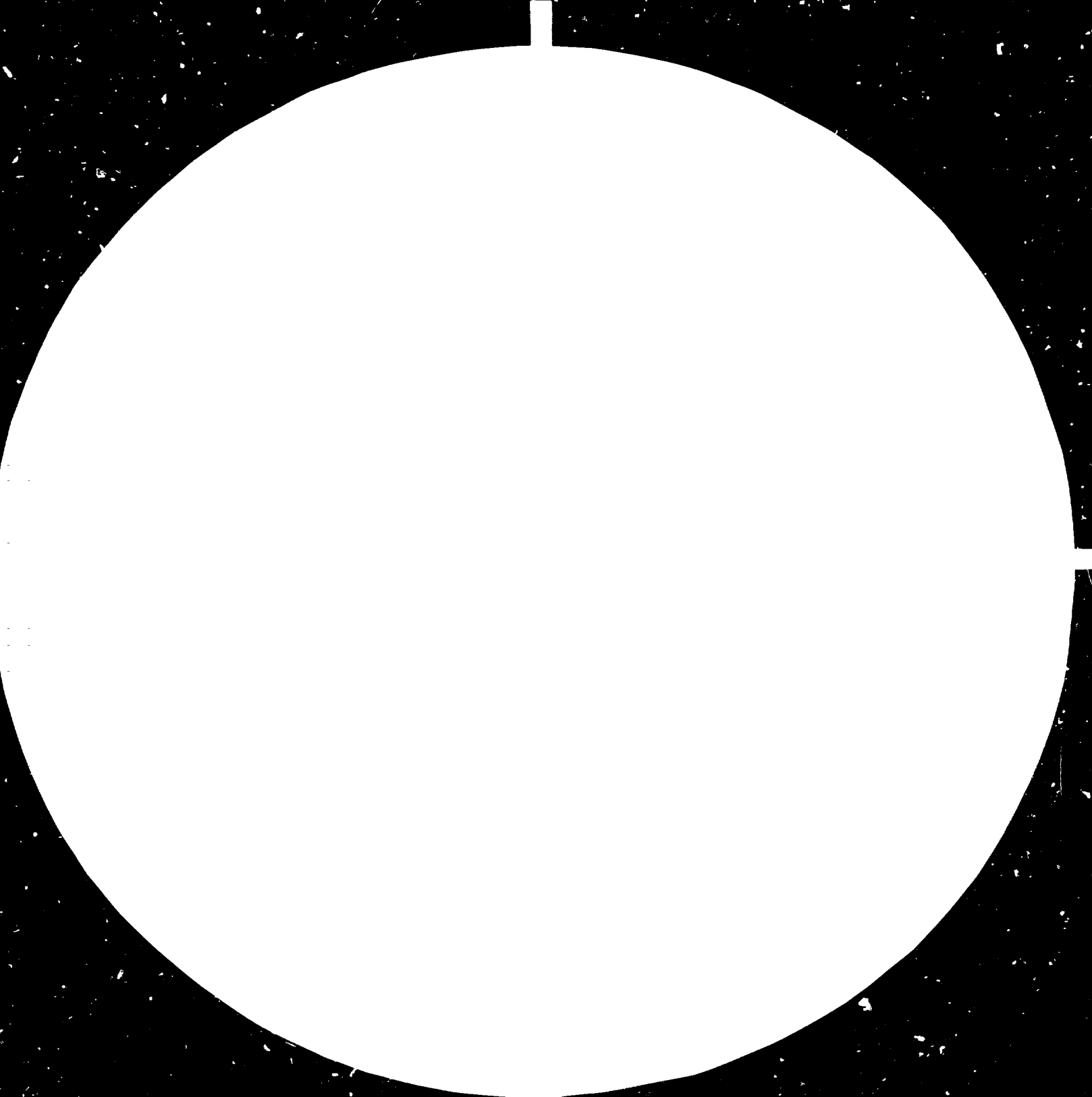
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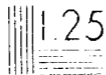
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Report #

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SEMINAR ON INTERNATIONAL CO-OPERATION ON DESIGN,  
CONSTRUCTION AND OPERATION OF FRUIT AND  
VEGETABLE PROCESSING PLANTS AND  
COLD-STORAGE FACILITIES. /

Sofia, Bulgaria, 29 September - 2 October 1959

UC/INT/50/215

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Seminar on International Co-operation on Design,  
Construction and Operation of Fruit and Vegetable  
Processing Plants and Cold-Storage Facilities

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INTRODUCTION:

The above Seminar was held in Bulgaria from 29 September 1981 to 2 October 1981, according to the attached programme (Annex I). Participants from Algeria, Benin, Brazil, Greece, Jordan, Mozambique and Mexico, in total 18 people, attended the meeting (See Annex II - List of Participants).

The meeting had as a basic objective to acquaint participants of developing countries with the integrated fruit and vegetable sector of Bulgaria and also to inform them of the country's development in the field of refrigeration. The Seminar covered a theoretical aspect in which two papers (see Annex III and Annex IV) were presented by Bulgarian professors. The papers and discussions held by the participants covered the main trends in the fields of fruit processing and refrigeration.

It was clear from the beginning that the participants were very much interested in knowing the basic aspects of the Bulgarian organization in the field of integrated agro-industry. Therefore, by means of visits, films and discussions, the participants were informed about the following aspects:

- (i) Agricultural development especially concerning irrigation;
- (ii) Planning of agricultural production of fruit and vegetables both for the fresh market and for processing;
- (iii) Processing of fruit and vegetables from the moment of receiving the raw materials until the final products, quality control, packaging and distribution, particularly to the export market;
- (iv) Research and development centres dealing with food processing and with technological development;

- (v) Training of food technologists, both at the theoretical and practical level;
- (vi) Production of equipment covering design, equipment and construction; and
- (vii) The most modern equipment actually being built in Bulgaria.

The above items were dealt with as examples of the fruit processing sector, however, in order to complement the participants' information, the sector of milk and dairy products was also covered.

The Seminar was very intensive covering only four working days and the participants had the opportunity of visiting a large fruit and vegetables plant, a technological institute, one training institute, the largest milk and dairy products plant in Bulgaria and the International Fair at Plovdiv.

Finally in order to be acquainted with the specialization of the various sectors in Bulgaria, a film was presented to show the way TECHNOEXPORT operates to sell technology and equipment on the international market.

The representatives of the developing countries fully participated in the Seminar, had the opportunity of obtaining clear information about the Bulgarian agro-industry development and about the facilities existing in this country for further co-operation with developing countries.



ANNEX I

PROGRAMME OF SEMINAR

1st Day - 29.9.1981 - Tuesday

- 09.30 A.M. Official Opening.
- Presidium:
- Mr. Hadjиков - Director General  
Ministry of Foreign Trade
  - Mr. Minov - Officer, Ministry of  
Foreign Affairs
  - Mr. Bačarov - Officer, Government  
of Bulgaria
  - Mr. Markov - Director General,  
TECHNOEXPORT
  - Mr. Georgiev - Director  
TECHNOEXPORT
  - Mr. Moreira-Dias - UNIDO
  - Prof. Tanchev - Rector, Higher  
Institute of Food Industry
  - Prof. Gatchilov - Director, Institute  
of Refrigeration
  - Prof. Lalov - Higher Institute of Food  
Industry
  - Mr. Polendakov - Director, Ministry  
of Foreign Trade
- 09.35 A.M. Welcoming speech to the participants delivered  
by the Director General of TECHNOEXPORT,  
Mr. T. Markov.
- 09.45 A.M. Welcoming speech to the participants on behalf  
of UNIDO delivered by Waldemar Moreira-Dias.  
Presenting those participants present, announcing  
the programme and presiding the Seminar.
- 10.00 A.M. Exposé of the first report "Basic Trends in the  
Designing, Erection and Maintenance of Refrigeration  
Plants for Processing and Storage of Fruits,  
Vegetables and Food Products" by Prof. Theofil  
Gatchilov, Director of the Institute of Refrigeration,  
Sofia.
- 11.00 A.M. Break
- 11.30 A.M. Discussion over the report, questions and exchange  
of experience.

- 13.00 P.M. Lunch break - spare time.
- 15.00 P.M. Exposé of the second report "Basic Trends in Designing, Construction and Operation of Plants for Industrial Processing of Fruits and Vegetables" by Prof. Stoyan Tontchev, Rector of the Higher Institute of Food Industry, Plovdiv.
- 15.50 P.M. Transfer to Film Hall
- 16.00 P.M. Film show
- 17.00 P.M. Discussion over the report, questions and exchange of experience.
- 18.30 P.M. End of the discussions. Announcement of the programme of the second day and technical questions.
- 19.00 P.M. Cocktail-party given by TECHNOEXPORT in honour of the guests of the Seminar

2nd Day - 30.9.1981 - Wednesday

- 07.45 A.M. Departure by bus for the Fruit and Vegetable Processing Plant "Maritza" - town of Pazardjik.
- 09.30 - Arrival and visit to the plant. The Chief  
09.45 A.M. Engineer accompanying.
- 11.30 A.M. Luncheon given to the guests by "Maritza" Plant.
- 12.45 P.M. Departure for the town of Plovdiv.
- 13.30 P.M. Visit to the Technical Fair - viewing the exposition of TECHNOEXPORT and the machine building industry, and becoming familiar with the products that were the subject of the Seminar.
- 17.30 P.M. Sight-seeing of Plovdiv - the ancient part.
- 18.30 P.M. Departure for the town of Stara Zagora  
Accommodation at the Vereya Hotel.

3rd Day - 31.9.1981 - Thursday

- 09.00 A.M. Visit to the Food Industry Machinery Institute and the Food Industry Machinery Manufacturing Plant in Stara Zagora. Eng. Mihalev welcomed the participants.

12.00 NOON Luncheon given by the management of the  
Institute and the Plant

13.30 P.M. Departure for Plovdiv

15.00 P.M. Visit to the Higher Institute of Food Industry  
in the town of Plovdiv. The Rector, Prof. Tantchev  
welcoming.

04.00 P.M. Departure for Sofia. Free evening.

4th Day - 02.10.81 - Friday

09.00 A.M. Summarizing of the results of the Seminar.  
Mr. Moreira-Dias reporting.

11.00 A.M. Visit to a cold storage plant.

13.00 P.M. Return to the hotel and spare time.

15.00 P.M. Sight-seeing of Sofia.

20.00 P.M. Official dinner given by TECHNOEXPORT.

ANNEX II

MEXICO

1. ing. GUILLERMO FUNES RODRIGUEZ  
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Cotonou  
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Amman

ANNEX III

LIST OF DOCUMENTS

- UNIDO/IO.443 "Trends in design, erection, operation and maintenance of refrigeration plants for processing and storing of fruit, vegetables and food products"
- UNIDO/IO.444 "Trends in design, construction and operation of plants for industrial processing of fruit and vegetables".



