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28 August 1974

ORIGINAL: ENGLISH

United Nations Industrial Development Organization

Expert Group Meeting on Minimizing
Pollution from Fertilizer Plants

Helsinki, Finland, 26 - 31 August 1974

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AGENDA AND PROGRAMME OF WORK

Monday, 26 August 1974

9.00 - 10.00	Registration	
10.00 - 12.00	Opening of the Meeting	Chairman protem
	Welcome address	His Excellency Jan-Ragnus Jansson Minister of Trade and Industry, Finland
	Message to the meeting	Mr. I.H. Abdel-Rahman Executive Director UNIDO
	Election of Chairman, Vice Chairmen	Mr. Yrjö Pessi Mr. Wahjudi Wisaksono Mr. Niilo Lounamaa
	Rapporteur	Mr. E.C. Bingham
	Aim and purpose of the meeting	UNIDO Officer in charge of the meeting
	Introductory remarks	Chairman
10.00 - 14.20	Modern technology for minimizing pollution from fertiliser plants	Mr. L. Whalley UNIDO Consultant
14.20 - 15.00	Discussion introduced by	Mr. E.C. Bingham UNIDO Consultant

We suggest that, even if the degree of the crime can be
proved, the degree of the crime is not the proper
basis for the trial. Even though the best possible
evidence is used to determine the degree of the crime.

Monday, 26 August 1974 (afternoon session cont'd)

- 15.00 - 16.00 Case histories from fertilizer producers
- a) Measures to minimise aqueous waste pollution from fertilizer plant located in an integrated chemical complex Mr. F. Dijkstra
Stanicarbon
(Netherlands)
- b) Utilization of by-products from the wet phosphoric acid process to prevent environmental pollution Mr. E. Steininger
Chemie-Linz
(Austria)
- 16.00 - 17.30 Discussion introduced by Mr. Pol Backen
Mr. Coppé-Rust
(Belgium)

Tuesday, 27 August 1974

- 9.00 - 9.20 Solutions for minimum pollution in nitrogen fertilizer plants Mr. E.C. Bingham
UNIDO Consultant
- 9.20 - 10.00 Discussion introduced by Mr. W.R. Hatfield
Engelhard Industries
Division, USA
- 10.00 - 11.00 Presentation of country papers (case histories)
- India - Environmental pollution from fertilizer plants - some case studies Mr. J.M. De:re
UNIDO Consultant
- Hungary - Influence of Environmental protection of the fertilizer production technologies Mr. A.D. Almsay
- 11.00 - 12.00 Discussion introduced by Mr. J.A. Rakestraw
L.H. Manderstrom
and Partners, U.K.
- 14.00 - 14.20 Minimizing pollution from phosphate fertilizer plants including captive acid plants Mr. T. Kivell
Kemira Oy (Finland)
- 14.20 - 15.00 Discussion introduced by Mr. R. Swank
UNIDO Consultant
- 15.00 - 15.20 The purification of gaseous streams from nitric acid plants which contain nitrogen oxides Mr. W.R. Hatfield
Engelhard Minerals
and Chemical Corp.
(USA)
- 15.20 - 15.30 Discussion

- 15.30 - 15.50 The use of alonizing process in sulphuric acid plant construction Mr. W.A. McGill
Alon Processing Inc.
(USA)
- 15.50 - 16.00 Discussion introduced by Mr. T. Kivela
Kemira Oy (Finland)

Wednesday, 28 August 1974

- 7.50 - 10.30 Plant visit to Kemira Oy Siilinjarvi phosphoric acid and fertilizer plant

Thursday, 29 August 1974

- 9.00 - 9.20 Legislation and control to implement reduction of pollutants from fertilizer production facilities, discussion on standards adopted in developed countries for captive acid plants, etc. Mr. R. Swank
UNIDO Consultant
- 9.20 - 10.00 Discussion on how the standards adopted by developed countries could be useful in developing countries, introduced by Mr. J.M. Dave
(India)
- 10.00 - 10.20 Establishment of a pragmatic mathematical approach for predicting particulate matter emission from fertilizer plants Mr. J.A. Rakestraw
Manderstam and
Partners Consulting
Engineers, (U.K.)
- 10.20 - 10.30 Discussion introduced by Mr. A. Masia
Técnicas Reunidas, S.A.
(Spain)
- Presentation of country papers
- 10.30 - 10.50 Spain - Studies to eliminate NO_x from medium pressure nitric acid plants using absorption Mr. Joaquín Olivares
Union Explosivos
- 10.50 - 11.10 Romania - Technical Solutions and Technological Advances Made in Romania to control Environmental Pollution Effects arisen from Fertilizer Plants Mr. N. Popovici
IPROCHIM (Romania)
- 11.10 - 12.00 Discussion introduced by Mr. J.C. Delfesse
- 14.00 - 14.20 The influence of effluent standards on economics of alternative waste-water treatment design Mr. F. De Lora
Técnicas Reunidas S.A.
(Spain)

- 14.20 - 14.30 Discussion introduced by Mr. J. Reynolds
Fertilizer Institute
(USA)
- 14.30 - 14.50 Pollution abatement in a Mr. T. Jojima and
urea plant Mr. T. Sato
Mitsui Toatsu Chemi-
cals Inc. (Japan)
- 14.50 - 15.30 Discussion introduced by Mr. U. Zardi
SNAM PROGETTI
(Italy)
- 15.30 - 15.50 Environmental regulations Mr. J. Reynolds
confronted by fertilizer Fertilizer Institute
producers in the U.S. (USA)
- 15.50 - 16.00 Discussion introduced by Mr. B.C. Spall
Fisons Limited
(U.K.)

Friday, 30 August 1974

- 9.00 - 9.20 UNIDO's role in assisting Mr. M.C. Geerling
developing countries to UNIDO consultant
minimize pollution from
fertilizer plants
- 9.20 - 10.00 Discussion introduced by Mr. Aminul Huq
(Bangladesh)
- Presentation of country paper
- 10.00 - 10.25 Bangladesh - Pollution from Mr. Aminul Huq
fertilizer plants in Bangladesh
- 10.25 - 10.35 Indonesia - Some environmental Mr. M.A. Wirjoasmoro
problems in developing fertilizer
industry with reference to
Indonesia
- 10.35 - 10.55 Nigeria - Direct reduction of Mr. K.H. Iteke
fluorapatite in fluid-phase
carrier: conceptual applications
to pollution control and other
implications
- 10.55 - 11.05 Mexico - The Fertilizer Industry Mr. J.G. Avila
in Mexico and the Pollution Guanos y Fertilizantes
Problems (Mexico)
- 11.05 - 11.20 Rapporteur's report
- Draft conclusions of the meeting

11.00 - 11.30 Discussion on conclusions and
recommendations

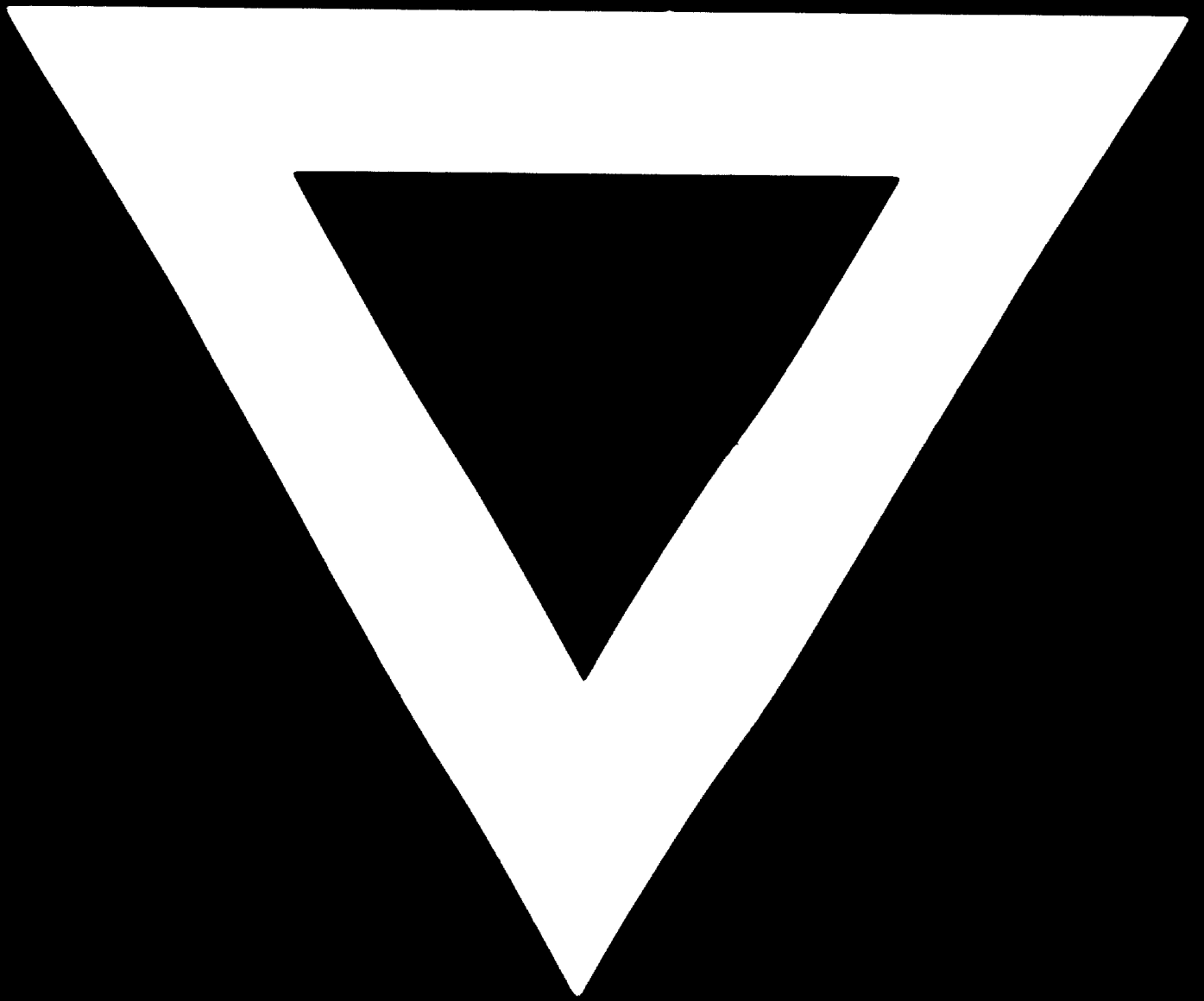
11.30 - 12.00 Drafting of final report

Saturday, 21 August 1974

9.00 - 10.00 Acceptance of final report of
the meeting

10.00 - 10.30 Closing session





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