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United Nations Industrial Development Organization

**Expert Group Meeting on the Manufacture of
Proteins from Hydrocarbons**

Vienna, Austria, 8 - 12 October 1973

AGENDA

Monday, 8 October 1973

Opening session 9.30 - 12.00

Registration

Opening address

Mr. G.P. Veliky, Director
Industrial Technology Division - UNIDO
on behalf of Mr. I.H. Abdel-Rahman
Executive Director - UNIDO

Welcome address

Mr. M.C. Verghese, Chief
Fertilizers, Pesticides and Petrochemicals
Industries Section
Industrial Technology Division - UNIDO

Election of Chairman and
Vice-chairman

Organization and objectives of
the meeting

Mr. B. Mudretsov
Officer in charge of the meeting - UNIDO

SECTION I - PRESENT STATUS AND FUTURE TRENDS

A. General

1. "Present status and techno-economic
aspects of the industrial production of
petro-proteins" (ID/WG.164/19)

by
J.C. Nasson,
Switzerland

Discussion

Afternoon session 14.00 - 17.00

SECTION I - A. General (cont'd)

2. "The role of feedstocks in single
cell protein production" (ID/WG.164/5)

by
J.H. Harwood
and A. Gabriel,
U.K.

Discussion

We regret that some of the pages in the microfiche copy of this report may not be up to the proper legibility standards, even though the best possible copy was used for preparing the master fiche.

Monday, 8 October 1973

Afternoon session (cont'd)

SECTION I - B. Gas oil and n-paraffins as feedstocks

- 3. Paper to be presented by B.H. Laine, U.K.
- 4. "The economics of producing single cell proteins by yeast fermentation using n-paraffins as substrate" (ID/WG.164/18) by G. Giacobbe, Italy
- 5. "Some specific features of the methods of production of bacterial food protein from diesel fuel and purified normal paraffins" (ID/WG.164/12) by K. Kostadinov, Bulgaria
- 6. "The production of single cell protein from n-paraffin" (ID/WG.164/10) by Y. Suzuki, Japan

Tuesday, 9 October 1973

Morning session 9.00 - 12.00

SECTION I - B. Gas oil and n-paraffins as feedstocks
(cont'd)

- 7. "Techno-economic aspects of our newly developed n-paraffin yeast" (ID/WG.164/7) by N. Tanahashi, Japan
- 8. "Some individual experiences in SCP production from n-paraffins" (ID/WG.164/4) by P. Peri, Italy
- 9. Communication from Institut Française du Pétrole, France

Discussion

C. Alcohols as feedstocks

- 10. "Fermentation protein from methanol" (ID/WG.164/9) by R.J. Young, U.K.
- 11. "Production of single cell protein from alcohols" (ID/WG.164/20) by Y. Masuda and K. Yoshikawa, Japan

Tuesday, 9 October 1973

Afternoon session 14.00 - 17.00

SECTION I - C. Alcohols as feedstocks (cont'd)

12. Paper on SCP from methanol

by
Mitsubishi Gas
Chemical Co. Inc.,
Japan

Discussion

SECTION II - ACCEPTABILITY AND NUTRITIONAL PROPERTIES

13. "Nutritional properties, acceptability and regulations with regard to the use of petro-proteins"

by
Mr. Skladnev,
U.S.S.R.

14. "Nutritional and product safety considerations for food and feed use"

by
J.C. Senez,
P.A.G.

15. "Problems of acceptability of the SCP obtained from n-paraffins" (ID/WG.164/6)

by
E. Geuna,
Italy

Discussion

Wednesday, 10 October 1973

Morning session 9.00 - 12.00

SECTION II - Discussion (cont'd)

SECTION III - PRODUCTION ASPECTS

16. Paper to be presented

by G. Seidl and
U. Faus,
Hoechst/Uhde, F.R.G.

17. Paper on normal paraffin separation

by
W.F. Avery,
Switzerland

18. "Effect of site factors on the economics of petro-protein manufacture"

by
G.D. Kerns,
U.S.A.

19. "Protein from algae - an associated industry" (ID/WG.164/8)

by
R.K. Robinson
and J.H. Garvie,
U.K.

20. "Cell Separation and fermenter cooling in protein production from hydrocarbons" (ID/WG.164/22)

by
T. Winberg,
Sweden

Discussion

Wednesday, 10 October 1973

Afternoon session 14.00 - 17.00

SECTION IV - COUNTRY PAPERS

21. "Production of SCP from different raw materials of petrochemical industry in Czechoslovakia" (ID/WG.164/11) by B. Sikyta, C.S.S.R.
22. Communication on petr-protein project in Austria by ÖMV Vienna/ CHEMIE Linz, Austria
23. Communication by I. Al-Karawi, Saudi Arabia
24. Communication by H. Mark, U.S.A.

Thursday, 11 October 1973

Morning session 9.00 - 12.00

SECTION V - PETRO-PROTEINS FOR DEVELOPING COUNTRIES

25. "The socio-economic situation in developing countries and potentials for the production of petro-proteins" (ID/WG.164/13) by M.G. Krishna, India
- Discussion
26. "Development strategy of n-paraffins as raw material source for production of SCP" by B. Rosi, Italy

Afternoon session 14.00 - 17.00

SECTION V
(cont'd)

27. "Agro-industrial complex as a potential user of petro-protein products in developing countries" by M. Mautner, UNIDO Secretariat
28. "The marketing of fermentation proteins in developing countries" (ID/WG.164/16) by J. Wells, Italy

Friday 12 October 1973

Morning session 9.00 - 12.00

and

Afternoon session 14.00 - 17.00

Discussion on all Sections

SECTION VI - CONCLUSIONS AND RECOMMENDATIONS





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