



TOGETHER
for a sustainable future

OCCASION

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United Nations Industrial Development Organization

ORIGINAL: ENGLISH

Expert Group Meeting on the Development
of Design and Design Capabilities in Developing
Countries

Vienna, 11-15 May 1970

PROVISIONAL AGENDA AND WORK SCHEDULE

Monday 11 May 1970

Registration 8:30 a.m.

FIRST MEETING (OPENING SESSION) 10:00 a.m. - 12:30 p.m.

- Welcome address
- Presentation of the meeting
- Inaugural address
- Election of chairman and vice chairman
- Election of rapporteur
- Chairman's address
- Approval of agenda
- Introduction of participants
- Appointment of drafting committee (5 members)

SECOND MEETING - 2:00 p.m. - 4:30 p.m.

- Item-1: Role of the development of engineering design capabilities
- (a) Existing status of design capabilities in developing countries
- (b) Role of the development of engineering design capabilities in the development of engineering industries and of the economy as a whole
- (c) Major obstacles in design and adaptation of design.
- Item-2: Identification of needs and costs
- (a) Ways and means of identification of areas for design and product-development centres and determination of their capacity
- (b) Classification of engineering products to be designed or to be adapted for design and development
- (c) Cost of designing

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.

Tuesday 12 May 1970

THIRD MEETING - 9.00 a.m. - 12.30 p.m.

Item-3: Design Problems

- (a) Organization and management of adaptation of designs
- (b) Organization and management of the creation of new designs
- (c) Adaptation of designs of products to be manufactured under licensing agreement to meet domestic needs
- (d) Standardization in designing.

Item-4: PROTOTYPE PROBLEMS

- (a) Organization of the production of prototypes
- (b) Components for prototypes - if they should be manufactured within a plant or within a country or to be imported
- (c) Quality control, testing and adjustment of prototypes
- (d) Assistance for the future product development and modernization of existing products
- (e) Introduction of modern technological processes in industry production
- (f) Co-operation of manufacturers and designers

FOURTH MEETING - 2.30 p.m. - 5.00 p.m.

Item-5: Training in Designing

- (a) Selection and development of creative people
- (b) Education and training methods of future designers
- (c) Present work in schools and institutes, on entering industry and in real engineering situations.

Wednesday 13 May 1970

FIFTH MEETING - 9.00 a.m. - 12.30 p.m.

Item-6: Organization of design development centres

- (a) Aims and objectives of design development centres
 - Adaptation and creation of new designs
 - Modernization of existing designs and import equivalents for local conditions
 - Construction and testing of experimental models or prototypes and their introduction into industry
- (b) The organization of design development centres
 - Product development and planning office
 - Design office
 - Experimental production workshops for prototypes
- (c) Technical staff.

SIXTH MEETING - 2.30 p.m. - 5.00 p.m.

Item-6: Organization of Design Development Centres

- (d) Building and equipment
- Design units by field offices for drawing, documentation and reproduction, metal shops, and for training of personnel.
 - Laboratories for machine tests, heat treatment, metallurgical studies etc.
 - Experimental workshop - machine assembly, electrical welding and foundry units etc.
 - Quality control and testing
- (e) Sources of financing and revenue

Item-7: UNIDO role

- Role of UNIDO in development of design capabilities.

Thursday 14 May 1970

PLANT VISIT - 8.30 a.m. - 2.30 p.m.

Visit to the ITRF A.G. Factory in Steckerbau according to programme attached

SEVENTH MEETING - 3.00 p.m. - 5.00 p.m.

Item-8: Conclusions

- Conclusions on all specific topics discussed

Item-9: Recommendations

- (a) Recommendations for the developing countries
- (b) Recommendations for UNIDO
- (c) Recommendations for the developed countries

Friday 15 May 1970

EIGHTH MEETING - 9.00 a.m. - 12.30 p.m.

Item-10: Review of report and recommendations

NINTH MEETING - 2.00 p.m. - 4.00 p.m.

(Closing Session)

Item-11: Approval of report

- Chairman's address
- Remarks by the participants
- Vote of thanks

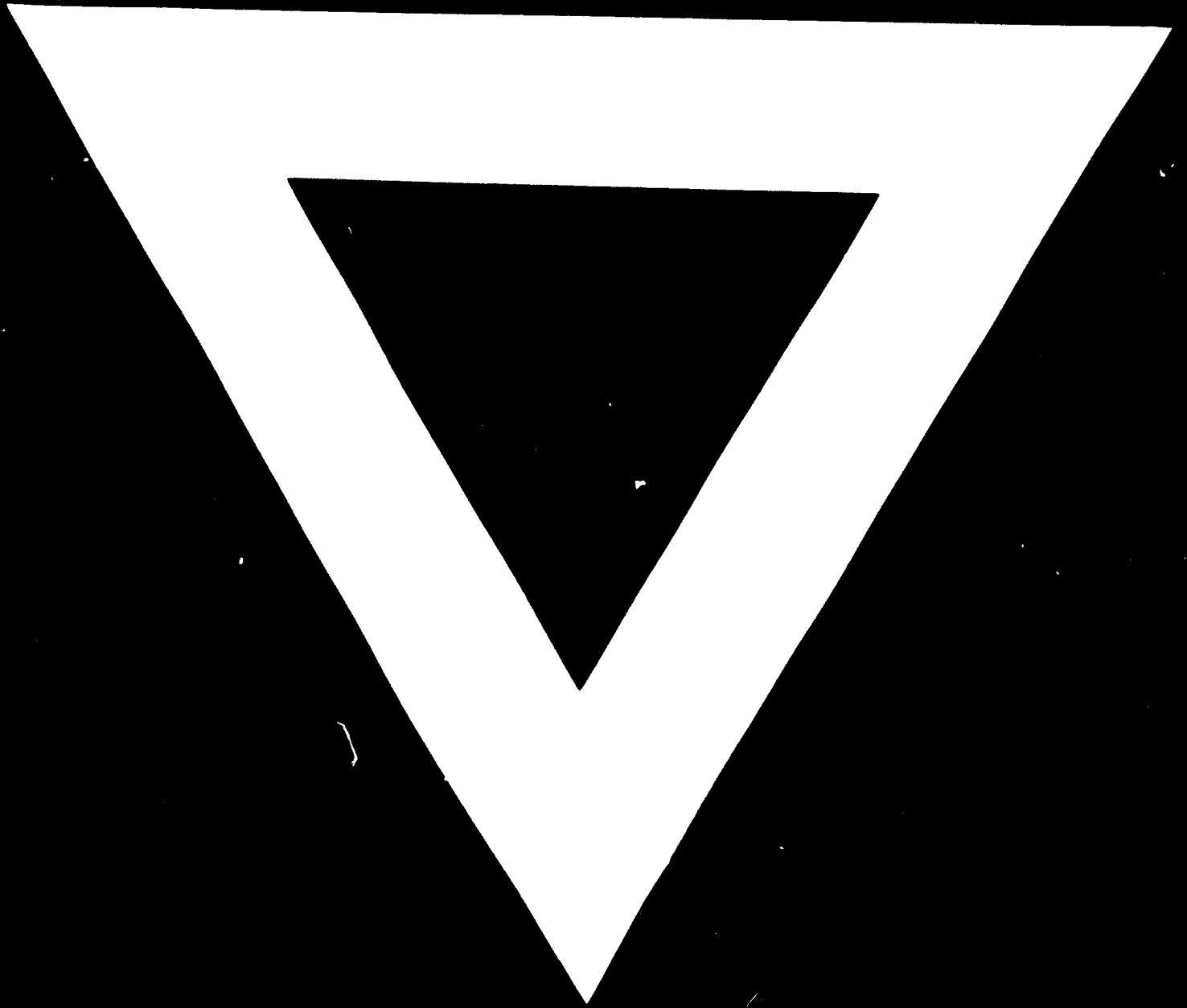
PROGRAMME

Visit to the HEID A.G. Factory in Stockerau
Thursday 14 May 1970

Thursday 14 May 1970

- 7.30 a.m. Departure by bus from UNIDO Headquarters, Felderhaus, Vienna 1010, Rathausplatz 2, to the HEID A.G. Factory in Stockerau.
(Approximately 30 kilometers north-east of Vienna)
- 9.30 a.m. - 11.15 a.m. Lecture by Mr. E. Kunst, Senior Engineer, based on a paper on:
- (a) 'Machine tool design engineered round the special requirements of N/C control'
 - (b) 'Programming of N/C machine tools', followed by a demonstration of N/C programming, especially semi-computerized programming.
- 11.15 a.m. - 12.00 p.m. 'Organization of Production on N/C Equipment'.
This subject will be dealt with during a visit and demonstration of programme-controlled N/C lathes in the factory.
- 12.00 - 12.45 p.m. Inspection of N/C lathes in the process of erection and assembly.
- 12.45 p.m. - 13.30 p.m. Final discussion and lunch
- 14.30 p.m. Arrival UNIDO Headquarters.





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