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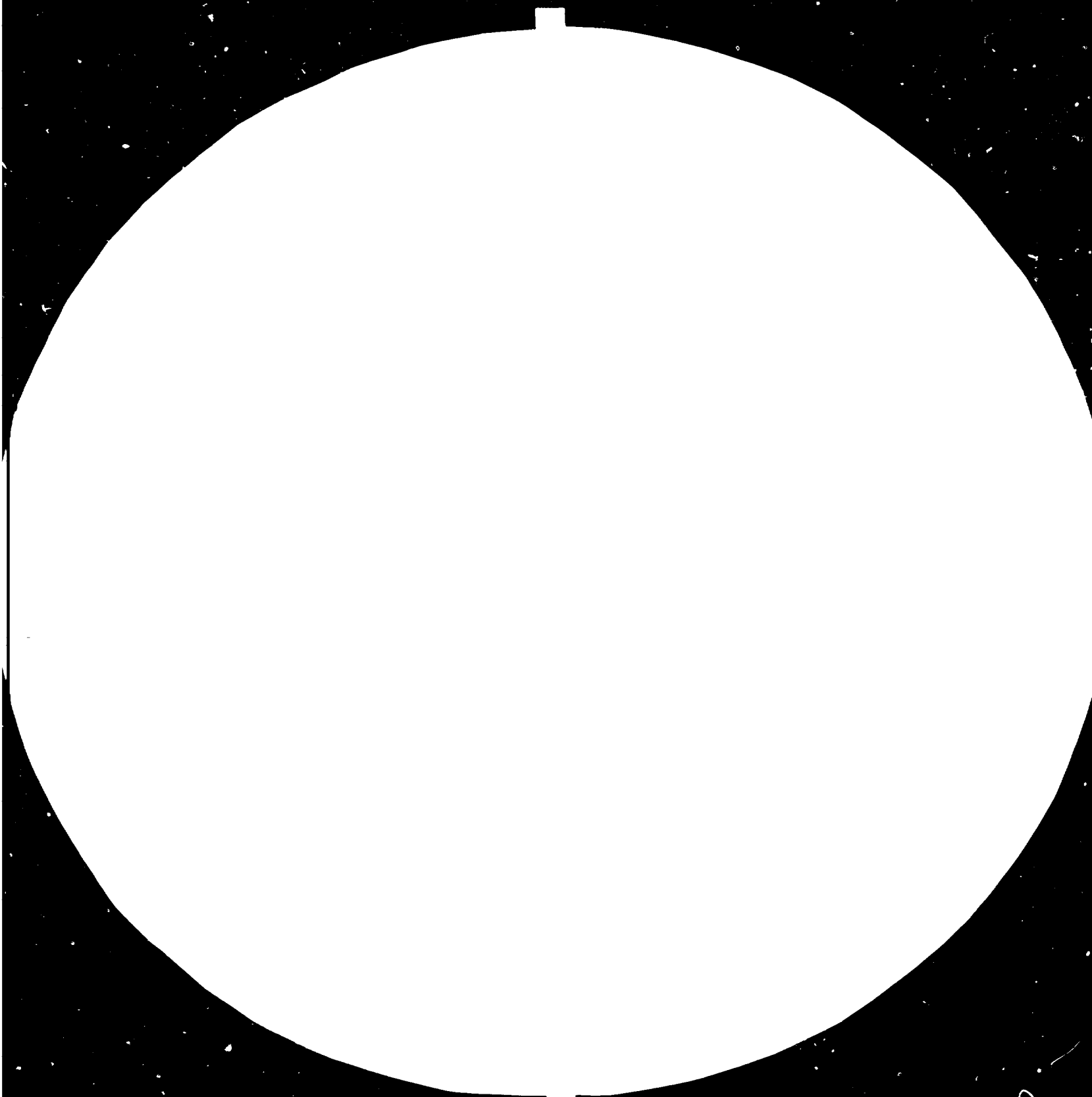
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MICROCOPY RESOLUTION TEST CHART

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12967

→ REMBLETON
SAGE

Technical Workshop on
"ENERGY CONSERVATION IN SILICATE INDUSTRIES
FOR THE LEAST DEVELOPED COUNTRIES"

Organized by the UNIDO-Czechoslovakia Joint Programme
for International Co-operation in the Field of Ceramics,
Building Materials and Non-metallic Minerals Based Industries
from 5 through 16 October 1981 in Pilsen, Czechoslovakia

FINAL REPORT

(Workshop on energy conservation
in silicate industries).

This report has been prepared by:

- Mr. G. Komissarov, Industrial Development Officer, Office
of the Director, DIO, Industrial Energy
Engineering Unit, Liaison Officer of the
UNIDO-Czechoslovakia Joint Programme,
UNIDO Headquarters Vienna
- Mr. Z.A. Engelthaler, Chief Executive of the UNIDO-Czechoslo-
vakia Joint Programme and Director of the
Research Institute for Ceramics, Refractories
and Raw Materials, Pilsen
- Mr. J. Dřevo, Acting Senior Expert of the UNIDO-Czechoslovakia
Joint Programme, Pilsen
- Mr. J. Laňovský, Expert of the UNIDO-Czechoslovakia Joint
Programme, Pilsen

1182

Pilsen, Czechoslovakia
October 1981

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1. INTRODUCTION

The Technical Workshop on Energy Conservation in Silicate Industries for the Least Developed Countries, organized by the UNIDO-Czechoslovakia Joint Programme for International Co-operation in the Field of Ceramics, Building Materials and Non-metallic Minerals Based Industries in Pilsen and endorsed by the UNIDO-Czechoslovakia Joint Committee, was held in Pilsen, Czechoslovakia from 5 through 16 October 1981.

The objectives of the Technical Workshop were to provide the participants from the least developed countries with practical and theoretical knowledge in the field of energy conservation in the production of ceramics, glass and cement. The programme emphasized some of the most important aspects of energy conservation regarding a proper choice of heat-consuming equipment and efficient technologies with regard to locally available raw materials in the least developed countries.

2. PARTICIPANTS

Fifteen participants from seven least developed countries were selected to take part in the Technical Workshop:

<u>Country:</u>	<u>Number of Participants:</u>
The Democratic Republic of Afghanistan	2
The People's Republic of Bangladesh	3
Nepal	2
Somali Democratic Republic	2
The Democratic Republic of the Sudan	2
The United Republic of Tanzania	3
The People's Republic of Democratic Yemen	1
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	15

The List of Participants - See ANNEX I.

3. LANGUAGE

The programme was entirely conducted in English. Typed lectures were submitted by the lecturers to the UNIDO-Czechoslovakia Joint Programme to be available for all the participants at the opening of the Workshop.

4. ORGANIZATION OF THE TECHNICAL WORKSHOP

The programme prepared for the participants was published as Time Schedule. Lectures and lecturers are listed in ANNEX II, in-plant and in-research institute trainings are reviewed in ANNEX III.

4.1 Theoretical part

The theoretical part consisting of lectures and movies took 40% of the training time. The lectures were dealing with energy conservation in connection with technology, applied thermal units and energy management in ceramic, cement and glass industries. Diagnostic methods and simulation of thermal processes in silicate industries were described.

The lectures were delivered by experienced factory senior technicians, industry, science and research directors and university professors.

4.2 Practical part

This part taking 60% of the training time consisted of training in diagnostic methods, practical measuring of thermal units, in technologies of silicate products and laboratory testing. The practical part was implemented in five factories and two divisions of the Research Institute for Ceramics, Refractories and Raw Materials, Pilsen. An exhibition of non-metallic raw materials and products was opened for participants in the URAL Hotel. The original programme of the practical part was extended by the visit to a cement plant at Prachovice, the largest kaolin pit in Europe at Kaznějov and to the ŠKODA Concern in Pilsen with regard

to the interest expressed by the participants.

4.3 Documentation and aids

The following documentation and aids were handed over to each of the Technical Workshop participants:

Guide to the Technical Workshop

Technical Workshop Time Schedule

Complete set of 11 lectures

Set of questionnaires of plants to be visited

Technical leaflets

Publication on the Research Institute for Ceramics, Refractories and Raw Materials, Pilsen

Publication on Industrial Exploitation of Phonolites

Publication on Ceramics in Architecture

Book on Electric Melting of Glass

Review of Production Assortment of the Czechoslovak Ceramics.

Various samples and album with the collection of photos

Writing materials and handbag

Protective helmet for in-plant training

The participants enriched their scope of knowledge by discussions with officials, Mr. J. Ludvík, General Director of the ŠKODA Concern, Mr. A. Lošťák, General Director of the Czechoslovak Ceramic Works, representatives of Foreign Trade Corporations Polytechna and Pragoinvest, Messrs. Přerov Machinery, Teplotchna and Crystalex.

5. ADMINISTRATIVE ORGANIZATION OF THE PROGRAMME

5.1 Administrative work

Administrative staff was engaged in organizing and arranging lectures, in-plant training in factories and the Research Institute, board and lodging arrangements, local transportation, cultural programme and social events, providing of visas and air-ticket booking, securing medical care (Mr. Abdul Halim from the People's Republic of Bangladesh was taken ill and attended by physicians of the Health Centre).

5.2 Secretariate and audience hall

Secretariate of the Technical Workshop and audience hall were established in the URAL Hotel in Pilsen.

5.3 Lodging and board

The participants were accommodated in the URAL Hotel, too, so that the time losses were eliminated.

6. EVALUATION MADE BY THE PARTICIPANTS

The evaluation made by the participants is expressed in the attached summary evaluation sheet reflecting a very positive picture of organization and training programme (ANNEX IV). A positive evaluation resulted also from the following round-table discussion.

7. CONCLUSIONS AND RECOMMENDATIONS

The participants from the least developed countries, having exchanged the experience of their countries in energy conservation in ceramic, cement and glass industries, recommend:

- 1/ The UNIDO-Czechoslovakia Joint Programme for International Co-operation in the Field of Ceramics, Building Materials and Non-metallic Minerals Based Industries should continue its activities in the energy conservation programme as an important component of its work with regard to the importance of this problem for the least developed countries.
- 2/ The objectives of the UNIDO-Czechoslovakia Joint Programme should encounter:
 - (a) Arrangement of Technical Workshops on Energy Conservation specialized in particular fields of silicate industries (ceramics, cement and glass) to be organized in future years.
 - (b) Extending technical assistance to developing countries in energy problems by diagnosing their thermal units and analyzing their technologies with regard to energy savings.
 - (c) Mediating operational instructions and know-how for the application and local construction of mobile diagnostic unit.
 - (d) Individual training in energy conservation of recommended participants.

- 3/ Testing of local materials based on geological exploration, followed by technological evaluation and concluded by proposals of technology preferring low energy consuming processes, elaboration of pre-feasibility, market and feasibility studies.
- 4/ Research based on indigenous raw materials aimed to the increased quality of products and renovation of product assortment comprising the stages of raw material selection, body composition, technology and finished product testing - the basic instruments for acceleration of industrial development.
- 5/ Group training (in-plant training workshops) in technological problems of non-metallic based industries.
- 6/ The optimum duration of Technical Workshops was recommended to be 3 weeks.

8. INDIVIDUAL RECOMMENDATIONS OF PARTICULAR COUNTRIES

The participants elaborated country reports reviewing the state of silicate industries in their countries and expressed the following recommendations regarding their potential co-operation with the UNIDO-Czechoslovakia Joint Programme:

1. The United Republic of Tanzania

- Training of technical staff
- Investigation of the possibility to establish a central research institute for silicate industries

2. The Democratic Republic of the Sudan

- Training programmes for workers and managerial staff
- Energy auditing programmes to rationalize energy consumption
- Modernization of the existing plants through adapting new technological equipment
- Transfer of technology of Mobile Diagnostic Unit

3. The People's Republic of Bangladesh

- Technological training of technicians in sanitary ware and insulator manufacture
- Assistance for local raw material exploration

4. The People's Republic of Democratic Yemen

- Technical assistance in the establishment of brick, fine ceramics and glass industries

5. Nepal - Training of technical personnel for cement industry
6. The Somali Democratic Republic
 - Training of manpower and assistance in the establishment of a ceramic pilot plant
7. The Democratic Republic of Afghanistan
 - Individual training in energy conservation with respect to solar energy
 - Technical assistance in technological evaluation of raw materials including non-traditional technologies

ANNEX I

LIST OF PARTICIPANTS

- Mr. Mohammed Yasin Noory
Coordinator of the cement project directorate
Department of Industries,
Ministry of Mines and Industries
Kabul, The Democratic Republic of Afghanistan
- Mr. Akhtar Mohammad Timar
Director of Engineering Dept.
of Industrial Services Projects
Ministry of Mines and Industries
Kabul, The Democratic Republic of Afghanistan
- Mr. S. Mohammad Shahidullah
Assistant Chemist
BISF, Bangladesh Chem. Industries Corp. (BCIC)
Bangladesh Insulator and Sanitaryware Factory,
Murpur, Dacca, The People's Republic of Bangladesh
- Mr. Abdul Halim
Assistant Chemist
Bangladesh Chemical Industries Corporation (BCIC)
Dacca, the People's Republic of Bangladesh
- Mr. Ali Ashraf
Assistant Chemist
Bangladesh Chemical Industries Corporation (BCIC)
Dacca, the People's Republic of Bangladesh
- Mrs. Shanta Karmacharya
Chemist
H.M.G. Ministry of Industry
Dept. of Mines and Geology
Lainchaur, Kathmandu, Nepal
- Mr. Narendra Prasad Pokhrel
Chemist
H.M.G. Ministry of Industry
Dept. of Mines and Geology
Lainchaur, Kathmandu, Nepal

- Mr. Abdi Hassan Farah
Head of Organic Chemistry Dept.
Somali National University
Mogadishu, Somali Democratic Republic
- Mr. Ahmed Maye Abdurahman
Head of Physical Chemistry Dept.
Somali National University
Mogadishu, Somali Democratic Republic
- Mr. Murtaza Abdeali Khabalia
Project Leader
National Chemical Industries
Dar-es-Salaam, The United Republic of Tanzania
- Mr. Jones Mdebonaona Saronga
Ceramic Project Leader Heading the Construction
of Ceramic Plant
Tanzania Saruji Corporation
Dar-es-Salaam, The United Republic of Tanzania
- Mr. Sabinus Karani Malima
Deputy Production Manager
Mbeya Cement Company, Ltd.
Mbeya, The United Republic of Tanzania
- Mr. Salem Al-annari Abdulrahman
Project Manager, Cement Project
Ministry of Industry
Aden, The People's Republic of Democratic Yemen
- Mr. Mahmoud Mohamed Rashad El-Makim
Engineer - inspector
National Energy Administration
Khartoum, The Democratic Republic of the Sudan
- Mr. El-Tayeb Ibrahim Sabeel
Economist- inspector
National Energy Administration
Khartoum, The Democratic Republic of the Sudan

ANNEX II

LIST OF LECTURES AND LECTURERS

1. Czechoslovak Ceramic Works, Their Structure, Development and Energy Management

Dr. A. Lošťák
General Director
Czechoslovak Ceramic Works
Trojská 13
182 00 Prague
Czechoslovakia

2. World Energy Problem

Mr. J. Rousek
Senior Research Worker
EGU Power Research Institute
884 03 Bratislava
Czechoslovakia

3. General Consideration on Energy Consumption in Silicate Industries

Mr. L. Kuna
Scientific Secretary
Research Institute for Ceramics,
Refractories and Raw Materials
P. O. Box 211
305 11 Plzen
Czechoslovakia

4. Ceramic Industry - Reducing the Energy Requirements in the Technological Processes

Mr. Z.A. Engelthaler
Chief Executive of the UNIDO/CSSR
Joint Programme
Director of the Research Institute
for Ceramics, Refractories and
Raw Materials
P.O. Box 211
305 11 Plzen
Czechoslovakia

5. Heat Consuming Units in Ceramic Industry

Mr. J. Kout
Technologist
Prefa, National Enterprise
600 00 Brno
Czechoslovakia

Mr. P. Havrátil
Designer
Prerov Machinery
600 00 Brno
Czechoslovakia

6. Cement Industry - Reducing the Energy Requirements
in the Technological Processes and Heat Consuming Units

Mr. J. Lahovský
Expert of the UNIDO/CSSR Joint
Programme for International
Co-operation in the Field of Ceramics,
Building Materials and Non-metallic
Minerals Based Industries

P. O. Box 211
305 11 Pilsen
Czechoslovakia

7. Diagnostics

Mr. L. Nový
Senior Research Worker
Research Institute for Ceramics,
Refractories and Raw Materials

P. O. Box 211
305 11 Pilsen
Czechoslovakia

8. Simulating of Thermal Processes in Silicate Industries

Mr. M. Němeček
Assistant Professor
Academy of Sciences

Suchbátarova 1905
166 28 Prague
Czechoslovakia

9. Glass Industry - Reducing the Energy Requirements in
the Technological Processes

Mr. V. Kohl
Deputy Manager
SKLO UNION, OBAS Concern

415 01 Teplice
Czechoslovakia

10. Heat Consuming Units in Glass Industry

Mr. J. Staněk
Professor
Chemical-technological University

Suchbátarova 1905
166 28 Prague
Czechoslovakia

11. Recent Advances in Crude Oil Saving Systems in
Petrochemical Industries

Mr. J. Babirek
Head of the Division
Research Institute for Ceramics,
Refractories and Raw Materials
360 00 Karlovy Vary - Všebovice
Czechoslovakia

ANNEX III

IN-RESEARCH INSTITUTE AND IN-PLANT TRAININGS

A - In-research institute training

- In-research institute training (technologies and laboratory testing of products) - Research Institute for Ceramics, Refractories and Raw Materials, Pilsen Division at Horní Bříza
- In-research institute training (technologies and laboratory testing of raw materials) - Research Institute for Ceramics, Refractories and Raw Materials, Pilsen Division at Karlovy Vary
- In-research institute training (instrumentation of mobile diagnostic unit) - Research Institute for Ceramics, Refractories and Raw Materials, Pilsen Division at Horní Bříza

B - In-plant training

- Technology and energy measurements by mobile diagnostic unit - West-Bohemian Ceramic Works, Wall Tile Plant at Horní Bříza
- Technology and energy measurements - Chlumčany Ceramic Works, Floor Tile Plant Chlumčany
- Technology and energy analyses of the energy consumption - LOSER Glass factory, Plant for the manufacture of metal glass at Karlovy Vary
- Cement technology of low energy consumption - Cement and Lime Works at Prachovice
- Machine-tool and power-generator production - ŠKODA Concern in Pilsen



UNIDO

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

VIENNA INTERNATIONAL CENTRE

P.O. BOX 300, A-1400 VIENNA, AUSTRIA

TELEPHONE: 26 310 TELEGRAPHIC ADDRESS: UNIDO VIENNA TELEX: 136612

EVALUATION - GROUP TRAINING PROGRAMMES

Number of participants 15

Home country: 7 countries

Programme: Technical Workshop on Energy Conservation in Silicate Industries for the Least Developed Countries

Host country: Czechoslovakia
Year 1981

I. PRE-COURSE INFORMATION:

1. How was the introductory information you received in your home country about: (please mark an x in the suitable column)

	<u>Sufficient</u>	<u>Not sufficient</u>	<u>Missing</u>
Aim of the training	14	1	-
Content of the programme	12	2	1
Level of the programme	12	2	1

What, if any, other information do you feel should have been included:

2. How many weeks before the beginning of the training programme did you receive the following information:

Information about the programme 5 weeks

Being accepted to the programme 1.3 weeks

Comments:

II. PROGRAMME CONTENT AND ORGANIZATION:

3. What is your opinion of the total duration of the course:

Too long

Just right

Too short 15

If not "just right", what, in your opinion, would be the most suitable duration for the course?

3.3 weeks average recommended duration

Please comment:

4. State your opinion about the daily schedule:

Too heavy 9

Just right 6

Too light

Comments:

5. Would you suggest any changes in the general nature of the training programme?

6. Do you feel that the training corresponded to your professional needs?

To a very large extent

To a large extent

To a sufficient extent

To a small extent

To a very small extent

Please comment:

7. Please give your opinion about the study visits (if any):

Please suggest other study visits that might have been valuable:

8. What do you think of the general level of the training?

Much too high

Too high

Adequate

Too low

Much too low

Comments:

9. Which subjects of the programme did you find most valuable?
(please state reason; for example new subject, my speciality, relevant to my work, new information, etc.)

Subject

Reason

Ceramists preferred subjects related to ceramics, participants engaged in cement industry were interested in subject of their field

10. Which subjects of the programme did you find least valuable?
State why (for example too elementary, inadequate instruction, irrelevant to my work, etc.)

Subject

Reason

11. Were there in your opinion any relevant subjects that were not adequately covered in the programme?

Yes 5

No 10

If yes, what did you miss?

12. Which changes would you have preferred in the methods of instructions?

	<u>no changes</u>	<u>more</u>	<u>less</u>
a) lectures	<input type="text" value="10"/>	<input type="text" value="2"/>	<input type="text" value="3"/>
b) group work	<input type="text" value="9"/>	<input type="text" value="5"/>	<input type="text" value="1"/>
c) demonstrations	<input type="text" value="8"/>	<input type="text" value="5"/>	<input type="text" value="2"/>

Comments:

13. How did you find the general standard of the instructor with respect of:

	i) <u>command of English</u>	ii) <u>method of instruction</u>
Very good	<input type="text" value="5"/>	<input type="text" value="8"/>
Rather good	<input type="text" value="8"/>	<input type="text" value="5"/>
Fair	<input type="text" value="2"/>	<input type="text" value="2"/>
Poor	<input type="text" value="-"/>	<input type="text" value="-"/>
Very poor	<input type="text" value="-"/>	<input type="text" value="-"/>

Please comment:

14. Did you have sufficient time for professional exchange of views with:

	i) <u>the programme staff</u>	ii) <u>fellow-participants</u>
Yes	<input type="text" value="12"/>	<input type="text" value="13"/>
No	<input type="text" value="3"/>	<input type="text" value="2"/>

15. How much did you benefit from these exchanges of views with:

	i) <u>the programme</u> <u>staff</u>	ii) <u>fellow-</u> <u>participants</u>
A great deal	<input type="text" value="7"/>	<input type="text" value="4"/>
Much	<input type="text" value="7"/>	<input type="text" value="7"/>
Somewhat	<input type="text" value="1"/>	<input type="text" value="2"/>
Little	<input type="text" value="--"/>	<input type="text" value="1"/>
Not at all	<input type="text" value="-"/>	<input type="text" value="1"/>
Please comment:		

III. RELEVANCE AND APPLICABILITY:

16. Did you find the contents of the programme relevant to conditions in your company (institute)?

To a very great extent	<input type="text" value="5"/>
To a great extent	<input type="text" value="6"/>
To a sufficient extent	<input type="text" value="4"/>
To a small extent	<input type="text" value="-"/>
Please state why:	

17. Do you feel that by participating in this training programme you have benefitted professionally?

To a very great extent	<input type="text" value="5"/>
To a great extent	<input type="text" value="5"/>
To a sufficient extent	<input type="text" value="5"/>
To a small extent	<input type="text" value="-"/>
To a very small extent	<input type="text" value="-"/>
Please state why:	

18. Do you think you will have an opportunity to apply your newly acquired knowledge and experience in your present job?

To a very great extent

To a great extent

To a sufficient extent

To a small extent

To a very small extent

What difficulties, if any, would you expect to meet?

19. Will you be in a position to transfer your acquired knowledge to others in your home country?

To a very great extent

To a great extent

To a sufficient extent

To a small extent

To a very small extent

20. How will this transfer be done?

a) In day-to-day work to colleagues and subordinates

b) In specific training activities inside present employment

c) In specific training activities outside present employment

What difficulties, if any, would you expect to meet?

IV. SOCIAL ASPECTS OF THE PROGRAMME:

21. Please state your opinion about the leisure time activities organized by the programme staff:

What additional activities would you have appreciated?

22. Please give any comments you choose on aspects not adequately covered by this questionnaire:

ANNEX V

ORGANIZING COMMITTEE

Director of the
Technical Workshop

Dr. A. Lošťák, General Director
of the Czechoslovak Ceramic
Works, Prague

Programme Director

Mr. Z.A. Engelthaler, Chief
Executive of the UNIDO/CSSR
Joint Programme and Director
of the Research Institute for
Ceramics, Refractories and
Raw Materials, Pilsen

UNIDO Vienna
Representative

Mr. G. Komissarov, Industrial
Development Officer, Office
of the Director, DIO,
Industrial Energy Unit,
Liaison Officer of the UNIDO/CSSR
Joint Programme

Technical Secretary

Mr. J. Dřevo, Acting Senior
Expert, the UNIDO/CSSR Joint
Programme

General Rapporteur of the
Technical Workshop

Mr. J. Lahovský, Expert of the
UNIDO/CSSR Joint Programme

Administration, Financial
and Passport Arrangements

Mrs. E. Engelthalerová, Chief
of Administration of the
UNIDO/CSSR Joint Programme

Mrs. A. Fremlová, Administrative
Clerk of the UNIDO/CSSR Joint
Programme

CULTURAL PROGRAMME FOR PARTICIPANTS

Monday 5 October 1981

Music Show

Wednesday 7 October 1981

Visit to the Pilsen Brewery, degustation of Pilsen beer

Thursday 8 October 1981

Sightseeing of Karlovy Vary Spa - Visit to the exhibition of the LOSER Glass Factory products

Friday 9 October 1981

Music Show

Saturday 10 October 1981

Sightseeing of Prague, Prague Castle

Sunday 11 October 1981

Sightseeing of Pilsen - West-Bohemian Museum in Pilsen (collection of Czech, German, French and Austrian porcelain, exhibits of glass), Brewery Museum in Pilsen

Visit to the Picture Gallery of Pilsen and Chamber Concert

Wednesday 14 October 1981

Short cultural programme of Czech folklor music

Friday 16 October 1981

Music Show

ANNEX VII

SOCIAL EVENTS

5 October 1981

Official lunch after the official opening of the Technical Workshop given by Dr. A. Lošťák, General Director of the Czechoslovak Ceramic Works, Prague, and Member of the UNIDO/CSSR Joint Committee, for honourable guests, participants in the Technical Workshop and members of the Organizing Committee

Coctail given by Mr. D. Butaev, Director, DIO, UNIDO Vienna, for honourable guests, participants in the Technical Workshop and members of the Organizing Committee followed by the official dinner and meeting with participants

Friday 9 October 1981

Reception by the Lord Mayor of Pilsen City Mr. E. Kopáček in the Town Hall of Pilsen

Coctail given by Mr. and Mrs. Z.A. Engelthaler, Chief Executive of the UNIDO/CSSR Joint Programme and Director of the Research Institute for Ceramics, Refractories and Raw Materials, Pilsen, on the occasion of the visit of Mr. and Mrs. P.J.F. Carré, Deputy Executive Director, UNIDO Vienna, followed by the official dinner and meeting of Mr. and Mrs. Carré with participants

Friday 16 October 1981

Coctail given by the UNIDO representatives and Dr. A. Lošťák, General Director of the Czechoslovak Ceramic Works, Prague, and Member of the UNIDO/CSSR Joint Committee, for honourable guests, participants in the Technical Workshop and members of the Organizing Committee followed by the official closing dinner

