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November, 1987

ENGLISH

JOINT UNIDO/ARCEDEM WORKSHOP

O N

CORE METALLURGICAL INDUSTRIES

F O R

AFRICAN DEVELOPING COUNTRIES

05.10.1987 - 25.10.1987

HUNGARY

UD/RAF/87/098

F I N A L R E P O R T

prepared by TESCO/UVATERV CONSULTING ENGINEERS

This study has not been cleared with the United Nations Industrial Development Organization, which does not therefore, necessarily share the views presented in this study.

The present Final Report comprises of four parts summarizing the documents related to the Joint UNIDO/ARCEDEM Workshop on Core Metallurgical Industries for African Developing Countries - Project no. UD/RAF/87/098 as follows:

- PART 1. - PROGRAMME
- PART 2. - UNIDO's letter on acceptance of the Programme
- PART 3. - Memorandum of Understanding
- PART 4. - Evaluation: 4th African Workshop and Study Tour on Core Industries

The workshop was completed according to the above documents.

P A R T I.

P R O G R A M M E

**AFRICA WORKSHOP
AND STUDY TOURS
ON CORE
INDUSTRIES**



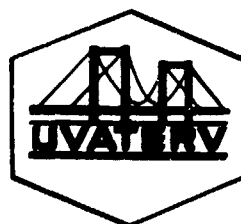
UNIDO



PROGRAMME

**HUNGARY
RÁCKEVE**

05.10.—25.10. 1987.



4th " AFRICA WORKSHOP AND STUDY TOURS
ON CORE INDUSTRIES "

HUNGARY - RÁCKEVE

5-25. October 1987.

- PROGRAMME -

Supervised by

P.Narancsik

Summary timetable of the Africa Workshop and
Study Tours on Core Industries

4.10.Sunday	Arriving of the Delegates to Budapest- -Ráckeve
5.10.Monday	Day of opening
6.10.Tuesday	Lecture of Szellőző Művek Mikroelektronikai Vállalat Prizma Tervező Szövetkezet Kisipari Termeltető Vállalat
7.10.Wednesday	Lecture of MEFI ÉLGÉP SACIT
8.10.Thursday	Study tour to Salgótarján
9.10.Friday	Visit to MIKI
10.10.Saturday	Shopping programme
11.10.Sunday	Sightseeing in the Budatown
12.10.Monday	Study tour to Szolnok-Kecskemét
13.10.Tuesday	Lecture of BVG Mechanikai Művek Technical University
14.10.Wednesday	Study tour to DUNA Mgtsz Lecture of AGROBER
15.10.Thursday	Study tour to Csongrád-Szeged
16.10.Friday	Study tour to Orosháza
17.10.Saturday	Excursion to the Buda-hill
18.10.Sunday	Sightseeing in Szentendre
19.10.Monday	Study tour to Agárd
20.10.Tuesday	Lecture of MTA-MMSZ GÉPSZEV
21.10.Wednesday	Study tour to VIV Lecture of MEZŐGÉP
22.10.Thursday	Study tour to Szellőző Művek Lecture of AGROBER
23.10.Friday	Lecture of INDUSTRIALEXPORT
24.10.Saturday	Day of departure

Sunday the 4th 10.

Arrival in Budapest

Accommodation in Ráckeve

Free programme

19,00 Dinner

Monday the 5th 10.

- 8,00 Breakfast in the Hotel
- 9,00 Free programme
- 10,00 Official opening of the Workshop by Mr.Dr.T.Sömjén on behalf of the Hungarian National Committee for UNIDO.
- 10,15 Mr.E.T.Balázs welcomes the Workshop on behalf of UNIDO.
- 10,30 Mr.T.A Diallo welcomes the Workshop on behalf of ARCEDEM.
- 10,45 Mr.L.Szécsi general manager welcomes the Workshop on behalf of UVATERV.
- 11,00 Mr.J.Kóváry deputy general manager welcomes the Workshop on behalf of TESCO.
- 11,10 Mr.Dr.Gy.Nanovfszky co-chairman of the Hungarian UNIDO Committee.
- 11,30 Cocktail-party
- 12,30 Free programme
- 14,00 Lunch f... the Delegates
- 15,00 Miss G.Hynek:
Information on activities of the Metallurgical Industries Branch of UNIDO
- 15,30 Hungarian Chamber of Commerce
Mr.Dr.Gy.Nanovfszky:
Introduction of the Hungarian Industry
Film show:
" Windows in Hungary "
- 17,00 Mr.Dr.P.Holczer-Miss M.Kiss
TESCO's international cooperation activity with specialised UN agencies.
- 18,00 Dinner

Tuesday the 6th 10.

- 7,00 Breakfast in the Hotel
- 8,00 Lecture of Szellőző Művek presented by
Mr.László Embő chief engineer for designe:
- Eighty years in the service of ventilation and
clean air.
- Video show
- 10,00 Lecture of Mikroelektronikai Vállalat:
- Technologies in mikroelectronics
- 12,00 Lunch
- 13,00 Free time
- 14,00 Lecture of Prizma Tervező Szövetkezet:
- Planning of small and medium sized plants,
prime contactor activities.
- 16,00 Lecture of Kisipari Termeltető Vállalat presented
by Mr.Sándor Hódossy head of production department:
- Enterprising organisation for the commodity pro-
duction of the private small-scale industry
- 18,00 Free programme
- 19,00 Dinner
- 20,00 Video show

Wednesday the 7th 10.

- 7,30 Breakfast in the Hotel
- 8,30 Lecture of MEFI:
- Activities of MEFI in the production of machines and equipments for the agricultural industry.
- 9,30 Break
- 10,00 Report of ÉLGÉP:
- General informations on the machinery and equipments for the food industry.
- 12,00 Lunch
- 13,00 Free time
- 14,00 Lecture and demonstration of SACIT,
presented by Mr.Dr.Márton Gergely managing director:
- Application of computers in steel selection and planning heat-treatment technologies.
- 15,00 Lecture and demonstration by Mrs.Szilvia Szirmai project coordinator:
- Demonstration on IBM computer.
- 16,00 Free programme
- 18,00 Dinner
- 19,00 Free programme
- 20,00 Video show

Thursday the 8th 10.

- 6,30 Breakfast in the Hotel
- 7,00 Departure for Salgótarján by bus.
- 8,30 Visit to one workshop of SKÜ /Metallurgical Works of Salgótarján/
- 11,00 Visit to the Salgótarjáni Siküvegyár / plate-glass factory /
- 13,00 Lunch
- 14,00 Visit to Salgótarjáni Vasöntöde és Tüzhelygyár / Ironfoundry and kitchen-range factory /
- 16,15 Visit to the Salgótarjáni Öblösüvegyár / Blown glassware factory /
- 18,00 Departure for Ráckeve by bus
- 19,00 Dinner

Friday the 9th 10.

- 7,00 Breakfast in the Hotel
- 8,00 Departure for Budapest by bus
- 9,00 Visit to MIKI
 - Lecture by the managing director of the plant:
 - General informations on the activities of MIKI
- 10,00 Introduction of the activities of the plant.
- 11,00 Questions, consultation
- 13,00 Lunch
- 14,00 Departure for Ráckeve by bus
- 15,00 Free programme
- 19,00 Dinner
- 20,00 Video show

Saturday the 10th 10.

- 8,00 Breakfast in the Hotel
- 8,30 Departure for Budapest Engels square by bus.
- 9,30 Free shopping programme
- 13,00 Departure from Budapest Engels square to the
Hotel
- 14,00 Lunch
- 15,00 Free programme
- 18,00 Dinner
- 19,00 Free programme
- 20,00 Video show

Sunday the 11th 10.

- 8,00 Breakfast in the Hotel
- 8,30 Departure for Budapest Engels square by bus
- 9,30 Sightseeing in the Downtown
- 11,00 Departure to the castle Vajda-Hunyad
- 11,30 Visit to the castle Vajda-Hunyad
- 12,30 Lunch
- 13,30 Departure to the Hungarian National Gallery
and castle district.
- 14,00 Visit to the Hungarian National Gallery
- 15,00 Visit to the castle district, Matthias church
and Fisherman bastion
- 17,00 Departure to the Hotel
- 19,00 Dinner
- 20,00 Video show

Monday the 12th 10.

- 6,30 Breakfast in the Hotel
- 7,00 Departure for Szolnok by bus
- 8,30 The manager of MEZŐGÉP - Szolnok
welcomes the guests
- 9,00 Informations on the activities of MEZŐGÉP
- 10,00 Visit to the plant
- 11,00 Film about the factory
- 13,00 Lunch
- 14,00 Departure for Kecskemét
Study tour to the Kecskeméti Kéziszerszámgár
- Introduction the manufacturing of hand-tools
within a visit of the workshops.
- 17,00 Departure from Kecskemét to Ráckeve
- 18,00 Dinner
- 19,00 Free programme

Tuesday the 13th 10.

6,30 Breakfast in the Hotel

7,00 : Departure to Budapest for the study tour to
BVG - Budapest

Lecture of BVG:

- General informations on the production of
machines for the food industry and for the
chemical industry.

- Introduction of the workshops of the enterprise.

12,00 Departure to the Hotel

13,00 Lunch

14,00 Lecture of Mechanikai Művek - Budapest presen-
ting by Mr.Dr.Tibor Gál senior member:

- Operating possibilities of phase rectifying
condensers and other equipments as well as
of paint-spraying equipments.

16,00 Lecture of Budapest Technical University:

- Instruction of engineers at the Budapest
Technical University in English.

18,00 Dinner

19,00 Video show

Wednesday the 14th 10.

- 8,00 Breakfast in the Hotel
- 8,30 Departure for the study tour to "Duna MGTSZ"-
- Csepel
- 9,00 Lectures of Duna MGTSZ:
- General informations on the activities of the cooperative.
- Detailed survey on the mushroom-culture and on the industrial activity.
Visit to the farm and to the industrial unit.
- 13,00 Lunch
- 14,00 Departure to the Hotel
- 15,00 Lecture of AGROBER:
- Representation of the agriculturer and food processing activities of the enterprises AGROBER-ÉGTI and AGROINVEST in Hungary and in the developing countries.
- 16,00 Film projection:
- AGROBER on agriculture
- AGROBER on food processing
- 16,45 Questions, consultation
- 17,00 Free programme
- 18,00 Dinner
- 19,00 Video show

Thursday the 15th 10.

- 6,30 Breakfast in the Hotel
- 7,00 Departure for the study-tour to Csongrád -
- Szeged - Orosháza
- 9,00 Report of PÜTÖBER on the production of ven-
tillation and air-cleaning machines and
equipments.
- Video show on the activities of the plant
- Visit of the workshops
- 13,00 Lunch
- 14,00 Departure to Szeged
- 15,00 Visit to the Kéziszerszámgár / Factory of
hand-tools /
- Professional informations
- Visit to the forgeshop
- 17,00 Sightseeing in Szeged
- 18,00 Departure to Orosháza
- 19,00 Dinner
Accomodation at Orosháza

Friday the 16th 10.

- 7,00 Breakfast in the Hotel
- 7,30 Visit to MEZŐGÉP - Orosháza
- General informations on the activities of the enterprise
 - Visit of the workshops
- 10,00 Visit to the OROSHÁZI ÜVEGGYÁR
/ Glass-factory of Orosháza /
- Professional informations on the products and technology of the plant.
 - Visit of the workshops.
- 12,30 Lunch
- 13,30 Visit to KAZÉP - Orosháza
- Informations on the production
- 16,00 Visit of UNIOR - Orosháza
- General informations on the activities of the cooperative
 - Visit of the workshops.
- 18,00 Departure to Ráckeve
- 21,00 Dinner

Saturday the 17th 10.

- 8,00 Breakfast in the Hotel
- 8,30 Departure to Budapest
- 9,30 Excursion to the Buda-hill
- 10,00 Walk to the look-out of János-hill
- 11,00 Passenger cableway
- 13,00 Lunch
- 14,00 Visit to the Museum of Military History in
Buda Castle
- 15,30 Departure to the Hotel
- 16,30 Free programme
- 18,00 Dinner
- 19,00 Video show

Sunday the 18th 10.

- 8,00 Breakfast in the Hotel
- 8,30 Departure to Szentendre
- 10,00 Visit to Skanzen
- 11,00 Walk in the downtown of Szentendre
- 12,00 Visit to the Kovács Margit and Ferenczy's
Museum
- 14,00 Lunch
- 15,00 Departure to the Hotel
- 16,00 Free programme
- 18,00 Dinner
- 19,00 Video show

Monday the 19th 10.

- 7,30 Breakfast in the Hotel
- 8,30 Departure for Agárd by bus
- 9,00 Visit to the Mezőgazdasági Kombinát Agárd
/ Agricultural combine /
Lectures on the various activities of the
Agricultural combine.
Visit of the farms and workshops.
- 12,00 Lunch
- 13,00 Continuation of the visit of the plant.
- 17,00 Departure for Ráckeve by bus
- 19,00 Dinner

Tuesday the 20th 10.

7,00 Breakfast in the Hotel

7,30 Departure to Budapest for the study tour to
MTA - MMSZ

8,30 Lectures of MTA - MMSZ

Mr. Dr. Gyula Stokum director:

- Systemic approach to instrumentation
- Introduction of Instruments and Measuring
Technique Service of the Hungarian Academy
of Sciences MTA - MMSZ.

Mr. Alfréd Menyhárt:

- Video show on Instruments and Measuring
Technique Service of the Hungarian Academy
of Sciences.
- Discussions

12,00 Departure to the Hotel

13,00 Lunch

14,00 Lecture of GÉPSZEV

- Introduction of the enterprise, the products
and production with special regard to the
"Spandome System" and the precision foundry.
- Video show on the precision foundry

18,00 Dinner

19,00 Video show

Wednesday the 21st 10.

- 6,00 Breakfast in the Hotel
- 6,30 Departure to Bicske for the study tour to
VIV - Bicske
- 8,00 Lecture of VIV:
- General information on the company
 - Consultation, film show
 - Visit of the workshops
- 12,00 Lunch
- 13,00 Departure to the Hotel
- 14,00 Lecture of MEZŐGÉP - Kecskemét:
- Silos another equipments for the canned food
industry and their export possibilities.
 - Video show on the products
- 18,00 Dinner
- 19,00 Video show

Thursday the 22nd 10.

- 6,30 Breakfast in the Hotel
- 7,00 Departure to Budapest
- 8,00 Study tour to Szellőző Művek - Budapest
 - Introduction of the products and production technology in the workshops.
- 12,00 Departure to the Hotel
- 13,00 Lunch
- 14,00 AGROBER
 - Consultation on the actual problems on the basis of the questions of the participants.
- 16,00 Free programme
- 18,00 Dinner
- 19,00 Video show

Friday the 23rd 10.

- 7,30 Breakfast in the Hotel
- 8,00 Lecture of INDUSTRIALEXPORT:
- Technical education and small-scale
industrial export
- 12,00 Lunch
- 13,00 Departure to the SKÁLA-Supermarket - Budapest
- 14,00 Free shopping programme
- 17,00 Departure to the Hotel
- 18,00 Dinner
- Closing ceremony and appreciation of the
study tour

Saturday the 24th 10.

6,00 Day of departure

For your attention

The Organizing Committee of the Workshop established a

Secretariat

to be find 5.10.-25.10. in the secretariat room where
from 8 a.m. to 5 p.m. you will always find colleagues:

Mr. Narancsik Pál

Mr. Vizvárdy Endre

Miss Desits Andrea

who will be at your disposal for any questions you
may ask.

The Hungarian Government has negotiated a special group
rate which enables participants to live comfortably
within their daily subsistence allowance. All
participants receive Ft 300.-daily for small expen-
ditures.

Your address is : 5-25.October

"Alkotóház"

Savoyai kastély

Ráckeve

2300

Phone : 06 26 85409,85253

Exchange in the local IBUSZ Office.

For any claim or special wishis don't hesitate to
contact the Workshop Secretariat.

P A R T 2.

U N I D O ' s letter on acceptance of the
P r o g r a m m e

UNIDO  ONUDI

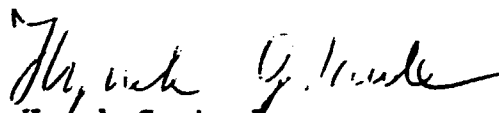
UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION
ORGANISATION DES NATIONS UNIES POUR LE DEVELOPPEMENT INDUSTRIEL

VIENNA INTERNATIONAL CENTRE P.O. BOX 300, A-1400 VIENNA, AUSTRIA TELEPHONE: 26 310 TELEGRAPHIC ADDRESS: UNIDO VIENNA	CENTRE INTERNATIONAL DE VIENNE B.P. 300, A-1400 VIENNE (AUTRICHE) TELEPHONE : 26 310 ADRESSE TELEGRAPHIQUE : UNIDO VIENNE	TELEX : 135612
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REFERENCE: UD/RAF/87/098

Rackeve
DATE: 6 Oct 87

This is to confirm that the Programme for the Workshop on Core Metallurgical Industries for African Developing Countries, Rackeve, 5 - 23 October 1987 was made available to the participants in time, in sufficient copies, and is fully acceptable and in line with the requirements of the Terms of Reference of the Contract with TESCO/UVATERV.



Hynek Gertrude
Research Assistant
Metallurgical Industries Branch
UNIDO

P A R T 3.

M E M O R A N D U M

OF

U N D E R S T A N D I N G

MEMORANDUM OF UNDERSTANDING

relating to the implementation of the ARCEDEM programme
with UNIDO No. UD/RAF/87/098 - "UNIDO/ARCEDEM Workshop
and Study Tour on Core Metallurgical and Other Industries
for Developing African Countries"

On behalf of ARCEDEM

African Regional Centre for Engineering, Design and
Manufacturing

P.O.Box 19. U.I. Post Office

Ibadan, Nigeria


..... Ráckeve, 23rd October, 1987

On behalf of TESCO/UVATERV

Consulting Engineering Co.

H-1054 Budapest

Rosenberg hp. u. 21.

Hungary


..... Ráckeve, 23rd October, 1987

The two Parties hereby agree on the following:

1. The Representatives of ARCEDEM express their satisfaction concerning the programme of the workshop. Hungarian experience will thus mean a positive input in the work of the participants.
2. ARCEDEM Representatives also express satisfaction concerning arrangements for accomodation, lodging, transportation, translation, hospitality and organizing services of TESCO/UVATERV.
3. The present implemented programme is considered as a valueable one and as a good basis for long-term cooperation between the two Parties. During the 4th study tour numerous themes and projects were found as of interest for the participating countries and ARCEDEM which require further collaboration and continuous follow-up, these are listed in Appendix I. to this Memorandum.
4. ARCEDEM express their wish to participate in similar workshop visits and study tours in Hungary and TESCO/UVATERV express their readiness to organize them.
This principal possibility must be carefully studied in each case whenever such demand occurs.
5. TESCO/UVATERV offer their assistance in further promotion of the technical and scientific cooperation among the interested African and Hungarian companies.
6. Through the agency of TESCO/UVATERV the Hungarian companies are ready to provide facilities for training of ARCEDEM design engineers, and other related engineering disciplines that shall be subject of separate agreements.

7. Both sides agreed that UNIDO's ongoing project No. UT/RAF/85/200 /preparation of detailed design for establishment of a demonstration plant for manufacture of wax injection dies for product of replicas/ has been completed successfully and should be the implementation phase be started.

This Memorandum of Understanding comes into force upon official confirmation from the side of ARCEDEM.

P R O P O S A L

for specific cooperation between ARCEDEM and some selected Hungarian companies/institutions through TESCO/UVATERV for the period October 1987-October 1988

1. BACKGROUND

The African Regional Centre for Engineering Design and Manufacturing /ARCEDEM/ is an African Intergovernmental Institution sponsored by the Economic Commission for Africa /ECA/ and co-sponsored by the Organization of African Unity /OAU/ and the United Nations Development Programme /UNDP/ and also the United Nations Industrial Development Organization /UNIDO/, established in Ibadan /Nigeria/. The objective of this centre is to be promote design and manufacturing capabilities for the capital goods in the African continent.

1.1. The Centre which took off in 1980 has now become more operational; its main activities are focused on the following:

- design /development of prototypes of machines,
- manufacture of prototypes of machines,
- testing /adaptation for suitability and efficiency increase consideration,
- rendering engineering consultancy and information services,
- training on the above.

1.2. Since the first Africa workshop on core industries jointly organized with TESCO/UVATER till now, ARCEDEM has witnessed a great deal of Technical progress achieved by the Hungarian industry particularly in metallurgy and in the design and manufacturing of agricultural tools and implements and food processing equipment.

1.3. It has been resolved that Hungarian industry has a lot to offer in strenghtening ARCEDEM's engineering capabilities and in the development of backward and forward linkages of the industries in African countries.

2. AREAS OF IMMEDIATE COOPERATION

- 2.1. ARCEDEM and TESCO/UVATERV will identify and initiate the joint development of specific processing equipment to be carried out by ARCEDEM and AGROBER-AGROINVEST-MEFI.
- 2.2. TESCO/UVATERV agreed to support and assist SVT /Salgótarjáni Vasöntöde Tűzhelygyár/ to send to ARCEDEM /Ibadan/ prototype of its developed ones, wood and charcoual types for testing and vulgarization purpose.
- 2.3. TESCO/UVATERV agree to provide ARCEDEM with technical information to include print and production drawing on the agricultural machinery, tools and implement.
- 2.4. TESCO/UVATERV agree to assist ARCEDEM in making other technical documents like handbooks, brochures and audiovisual ones to be used during ARCEDEM training programmes organized in Ibadan.
- 2.5. The two parties, ARCEDEM and TESCO/UVATERV agreed to ensure close follow-up of these activities and to jointly study any other cooperation activity for mutual benefit.

2.6. UVATERV

Consultancy services

Joint consultancy services to cover the following priority areas:

- feasibility studies, for precision and non-ferrous metal foundries, barium ferrite magnet plants and/or products and metallworking industries;

- technical studies to reactivate and/or improve existing metallurgical and metal working industries in African Member States;
- studies on possibilities of promoting the "investment casting technique" in African Member States.

Designs and development

Joint activity on the development and design of simple economical and metallurgical small-scale industries /turn-key project etc.

Training

On the job training in UVATERV facilities in design and development of metallurgical development for African mechanical engineers.

2.7. AGROBER

1111 Budapest, XI. Budafoki út 79. and in the frame of it

- AGROBER AGROINVEST Foreign Trade Division of AGROBER further
- AGROBER ÉGTI Consulting Engineering Office for Agriculture and Food Industry

The company and its experts are registered by the UNIDO and FAO.

The company is ready to provide the following services:

- preliminary complex regional studies in the field of agriculture and food industry,
- land preservation studies and plans,
- feasibility studies based on local investigation by our experts,

- turn-key projects,
- general consultancy in the field of agriculture and food industries,
- providing experts in different countries for special purposes,
- arrangement of local training and receiving trainees in Hungary,
- new plants investments and reconstructions of existing ones.

In details:

A G R I C U L T U R E

- Land preservation for crop production capability
 - land reclamation
 - soil conservation
 - irrigation
 - drainage
 - field crop production
 - rice production
 - fruit and grape production
 - agrochemical establishments
- Crop collection and storage, farm mechanization
 - storing facilities for agricultural products
 - farm centres
 - small size machine assembly and repairing shops and training centre
 - service station
 - farm for different animal husbandry /sheep, cattle, poultry, pig, etc./ with different sizes
 - veterinary facilities
 - mushroom-culture
 - feed mills

FOOD INDUSTRY

- poultry processing plants
- slaughterhouses and meat processing plants for different animals
- flour mills
- fruit juice and canning factories
- bakeries
- grape processing plants
- wine productions and bottling plants
- breweries
- vegetable-oil plants
- milk processing plants
- sugar factories
- by-products factories
- cold stores for different food and temperature with special Hungarian aluminium construction system.

P A R T 4.

E V A L U A T I O N

4TH AFRICAN WORKSHOP AND STUDY TOUR

ON

CORE INDUSTRIES

EVALUATION: 4TH AFRICAN WORKSHOP AND STUDY TOUR ON COPE INDUSTRIES**I. PRE-COURSES INFO:**

	<u>Sufficient</u>	<u>Insufficient</u>	<u>Missing</u>
Aim	13	5	-
Content	7	6	5
Level	11	1	5

2. Number of weeks before beginning of programme was info received.

About Programme: 20 weeks to zero

Accepted in Programme: 12 weeks to zero

Due to lateness of UNDP/ECA support, there were very many who received the information very late indeed.

II. PROGRAMME CONTENT AND ORGANIZATION**3. Opinion of duration:**

Too long: -

Right: 5

Short: 13

Six weeks was an average suggestion for duration, although one 8, and one 10 were suggested.

4. Opinion - daily schedule

Too heavy: 11

OK: 7

Light: -

Generally there was a note of protest for 3 (or more) visits per day, and arriving late back at hotel.

5. More practical approach - more time in workshops. Time to be spent with maintenance design.**6. Training corresponded to professional needs**

Very large extent: 3

Large extent: 3

Sufficient: 9

Small extent: 2

Very small extent: -

7. Many appeared satisfied, but some suggested that design should be given more emphasis. Steel plant, electroplating, hand tools, shoes and clothing were mentioned.**8. General level of training**

Much too high: 2

Too high: -

Adequate: 12

Too low: 1

M.too low: .

A few commented that there was little training and a lot of tour.

9. Subjects most valuable

Precision (investment) foundry	9
Instrumentation	3
Class	3
Agro machinery	3
Hand tools	2

10. Subjects least valuable

There was little response: Agricultural Combine - 2
Mushroom production (!)

11. Relevant subjects not adequately covered

Yes: 5
No: 5; many abstentions

Little or no design stage involved, Foundry/Heat treatment; Textiles, Ventilation Air condit., automobile - electromechanical.

12. What changes in instruction method ?

	<u>None</u>	<u>More</u>	<u>Less</u>
Lectures	9	2	1
Group work	5	5	
Demonstration	4	9	

One participant suggested that there was in fact no group work in the programme (which seems a reasonable sort of comment !).

13. Standard of Instruction English Method

Very good	6	3
Rather good	1	2
Fair	4	1
Poor		
Very poor		

14. Sufficient time for professional exchanges with

	<u>Staff</u>	<u>Participants</u>
Yes	11	11
No	3	6

15. How much benefit from these exchange of views

	<u>Staff</u>	<u>Participants</u>
A great deal	5	3
Much	5	4
Somewhat	2	5
Little	1	3
Not at all	1	

Note of one participant that ARCEDEM staff was not technical.

III. RELEVANCE AND APPLICABILITY

To very great extent: 6
Great extent 2
Sufficient 7
Small 2

Comment: Textiles not touched upon (twice)
Technology of high level, not applicable.

17. Professional benefit ?

To a very great extent: 6
Great extent 5
Sufficient extent 6
Small extent
Very small extent

18. Will have opportunity to apply acquired knowledge experience ?

To a very great extent: 7
Great extent 1
Sufficient extent 6
Small extent 5
Very small extent

19. Will be in a position to transfer knowledge

To a very great extent 4
Great extent 5
Sufficient extent 7
Small extent 2
Very small extent

20. How will transfer be done

Day to day work 14
Specific activities inside
present employment 8
Specific training activities
outside present employment 3

IV. Social Aspects

21. Leisure time activities

Most participants were of the opinion that these activities or time available was very limited; however two participants noted "very good"; and one, "adequate".
Requests for more indoor sports facilities was noted

22. One participant requested a more frequent change of sheets; another that there are no laundry facilities at Raskeve
A request for African food was noted, as was desire for increased daily allowances.

Backstopping Officer comments

The Backstopping officer was present for only two days. However

- a) Lectures should be delivered in either French or English; not Hungarian. (Although there was a great improvement in translation from 1986).
- b) Effort should be made to bring the participants closer to the design stages of manufacturing.
- c) Take them to a couple of football matches - or other group spectator sports.
- d) During the first week (for example) they may be allowed to express preferences, and then be split into two or three groups. For example, it would appear that many would have appreciated more time in (precision) foundry. Not all participants wish to see everything, but also they do not wish to waste time.