Ministry of Labour and
Social Insurance

THE FIRST TEN YEARS

1968/69—1978/79

Tenth Anniversary Publication
of the
HIGHER TECHNICAL INSTITUTE
CYPRUS

By way of Introduction

The Higher Technical Institute (HTI) which started operating in the academic year 1968-9, celebrates its 10th anniversary this year. The Institute was established as a joint project of the United Nations Development Programme and the Government of Cyprus. The Cyprus Ministry of Labour and Social Insurance and UNESCO, with assistance from the I.L.O., acted as executive agents for the project, which lasted till 1973, and entailed a total cost of $3,005,629.

The Cyprus Government contributed $1,684,669 in the form of local staff, land and buildings, and the UNDP contributed $1,320,960 by way of equipment, expert foreign staff and fellowships to local counterpart staff. The joint project came to an end in March 1973 and since then the Cyprus Government has undertaken sole responsibility for the Institute's operation.

The HTI is the highest technical educational establishment in Cyprus, its mission being to train Technician Engineers in the basic engineering specialisations of Civil, Electrical and Mechanical Engineering to meet the needs of the country's developing industry. Regular courses are of three years' duration. The Institute now also offers a three-year full-time course for Marine Officers in Engineering; it has hosted a pilot project of UNESCO for Life Long Education and offered countless short couses to Industry. In addition to its teaching role, the Institute offers consultancy to industry and has taken a leading role in certain types of applied research such as Solar Energy. The present publication aims at giving an overview of the HTI in the many and varied aspects of its activities.

The HTI had, by July 1978 offered 562 graduates to the Labour Market, of which it is rightly proud: Those who have gone into industry have secured suitable posts with lucrative emoluments; while the smaller number of graduates (about 60) who pusued further studies abroad have been accepted as 'transfer students' by universities and colleges in Britain, the United States, Canada and Australia, so that they are able to obtain a B.Sc. degree with not more than two years of further studies. Most of the students who went abroad have distinguished themselves academically and many have continued with postgraduate studies.

Another much appreciated form of recognition has come from the Professional Engineering Institutions of Britain:

The Institutions of Plant Engineers and General Technician Enginners have accepted that holders of the HTI Diploma in any specialisation, are eligible for the qualification of T.Eng. (Technician Engineer). The Institution of Electrical Engineers (IEE) and the Institution of Mechanical Engineers (IMechE) have accepted to consider graduates of the HTI in the appropriate specialisations for exemption from Part I of the Council of Engineering Institutions examinations that lead in due course to the qualification of C.Eng. (Chartered Engineer).

Despite the politically troubled times that Cyprus has gone through in the past decade and despite the occasionally strained relations between Greek and Turk Cypriots, (the two main communities on the island), the Institute has continued to work in harmony with both communities, members of which have participated actively at all levels of the Institute's activities, i.e. as students, staff and governing body. This is perhaps the aspect of which the Institute is most proud, viz. that right up to the invasion of Cyprus by Turkey in July 1974, the HTI operated as a truly intercommunal institution. And even after the invasion, when communication between the two communities separeted by the Attila line between North and South, effectively came to a stand still, members of the two communities, former colleagues and fellow students kept up their contacts, proving that human feeling is stronger than politics.

The HTI is celebrating its 10 the anniversary in the absence of its Turk Cypriot members, but not without hope that another anniversary might be celebrated together.

HIGHER TECHNICAL INSTITUTE
BOARD OF GOVERNORS

CHAIRMAN

M.D. Sparsis — Director General, Ministry of Labour & Social Insurance

MEMBERS

Representatives of Government Departments

G. Hadjianastassiou	Representative of the	Planning Bureau
O. Veli*	" " "	Turkish Education Office
D. Afamis	" " "	Ministry of Communications & Works
N. Hadjinicolas	" " "	Ministry of Education
G. Economides	" " "	Ministry of Education
P. Koutouroushis	" " "	Ministry of Labour & Social Insurance
T. Anastassiades	" " "	Ministry of Finance
I. Papadopoulos	" " "	Ministry of Commerce & Industry

Representatives of Professional & Trade Associations

Y. Zambarloukos	Representative of the	Civil Engineers & Architects Association
P. Lenas	" " "	Cyprus Chamber of Commerce & Industry
A. Constantinou	" " "	Cyprus Professional Engineers Association
V. Djevdet*	" " "	Turkish Engineers Association
S. Christodoulou	" " "	Cyprus Building Contractors Association

Representatives of Employer and Employee Associations

M. Ioannou	Representative of the	Cyprus Workers Confederation
G. Savvides	" " "	Pancyprian Federation of Labour
L. Mazhar*	" " "	Turkish Trade Unions
M. Adamides	" " "	Cyprus Employers Federation
G. Protopapas	" " "	Cyprus Employers Federation

Representatives of the Higher Technical Institute

D. Lazarides	" " "	HTI Staff Union
E. Michael	" " "	HTI Graduates Association

SECRETARY

G. D. Christodoulides, Director, Highter Technical Institute

---

* *Participated actively till July, 1974.*

HIGHER TECHNICAL INSTITUTE
STAFF LIST
for the Academic Year 1978-79

Director
G. D. Christodoulides,
B.Sc. (Eng.),M.Sc. (Eng.), Cert.Ed., (London)

Administrative Officer/Registrar
A. Yiordamlis (Mrs),
M.Sc. (Mgmt) (Warwick) M.I.L. (English)
Barrister-at-Law (London)

CIVIL ENGINEERING DEPARTMENT

Head of Department
D. Lazarides,
DLC (Eng.), MICE, MIHE

Lectures
P. Vassiliou,
B.Sc. (Eng.) (London)

A. Papadopoulos,
B.S., M.S., (P.I.N.Y.)

H. Stavrides,
B.Eng., M.Eng. Ph.D. (Sheffield)

D. Sergidou (Mrs)
Dipl. A.A. (Architectural Assoc. U.K.)

K. Anastassiades,
B.Sc. (Eng.) (London)

N. Kathijotes,
B.S.C.E. (Massachusetts)

Laboratory Assistants
M. Agathocleous,
Tech. Engineer Diploma (HTI, Cyprus)

S. Kyzas,
Tech. Engineer Diploma (HTI, Cyprus)

ELECTRICAL ENGINEERING DEPARTMENT

Head of Department
T. Drakos,
M.Sc. (Eng.) (Salford), C.Eng., MIEE, MIMechE

S. Anastassiou,
B.Sc. (Eng.) (London), C.Eng., MIEE,
Certificate of Education (HTI, Cyprus)

C. Loizou,
B.Sc. (Eng.) (London)

A. Mallouppas,
B.Sc. (Eng.), M.Sc. (Eng.), Ph.D. (UMIST),
MInstMC

S. Spyrou,
B.Sc. (Eng.) (London)

C. Chrysafiades,
B.Sc. (Eng.) (London)

G. Kourtellis,
B.Sc. (Eng.) (Manchester)

Laboratory Assistants
M. Misialis,
Dipl. School of Higher Electronics (Athens),
Certificate of Education (HTI, Cyprus)

J. Demetriou,
Tech. Engineer Diploma (HTI, Cyprus),
Certificate of Education (HTI, Cyprus)

MECHANICAL ENGINEERING DEPARTMENT:

Head of Department
G. Iordanou,
B.Sc. (Eng.) (London), C.Eng., MIMarE,
Certificate of Education (HTI, Cyprus)

Lecturers
A. Constantinou,
M.I.E.D.

I. Michaelides,
B.Sc. (Eng.), CNAA

P. Demetriou,
B.Sc. (Eng.) (London)

Ch. Tavrou,
B.Sc. (Eng.), CNAA

Th. Symeou,
B.Sc. (Eng.), CNAA

M. Pattichis,
B.Sc.(Eng.), M. Sc.(Eng.), D.I.C. (London)

P. Tramountanellis,
B.Sc. (City)

C. Neocleous
B.E. (Beirut)

G. Katodritis,
B. Sc. (Eng.) (London)

Visiting Lecturers
S. Caramontanis,
B.Sc. (Eng.) (Edinburgh), C.Eng., MIEE,
FIMarE

N. A. Triantafyllou,
Ing. I.E.G. (France), C.Eng., MIEE

G. Kariolou,
Dipl. Y. & B. Management (U.K.)

Cl. Theodoulou (Mrs)
Law Degree, (Athens),
Postgraduate Dip. in Shipping (London)

Laboratory Assistants
Ch. Kaloyirou,
Tech. Engineer Diploma (HTI, Cyprus)
Certificate of Education (HTI, Cyprus)

I. Pavlides,
H.N.D. (U.K.)

I. Angeli,
Tech. Engineer Diploma (HTI, Cyprus)

M. Chrysafis,
Tech. Engineer Diploma (HTI, Cyprus)

GENERAL STUDIES DEPARTMENT

Head of Department
D. Hadjiloizis,
Maths Degree (Athens), M.Sc. (Eng.) (Michigan)

Lecturers
O. Demetriades (Mrs)
B.A. (English) (London)

A. Achillides,
Physics Degree, Postgrad. degree in Physical Electronics (Salonica), M.Sc. (Physics) (Reading)

C. Pavlou,
Physics Degree (Athens), M. Sc. (Sc. Ed.) (Iowa)

N. Mantis,
Political Science Degree (Athens)

G. Philippou,
Maths Degree (Athens), M.A. (Maths Ed.) (Beirut)

Z. Schiza (Mrs),
Maths Degree (Athens)

D. Charalambidou (Miss),
B. A. English (London), Dipl. in English, (Cambridge) M.A. (English) (Birmingham)

Sports Masters
V. Constantinou,
Dipl. Physical Education Academy (Athens)

S. Hadjistefanou,
Dipl. Physical Education Academy (Athens)

Part-time Lecturers
L. Demetriou,
B.A. (English), M.A. (English)

I. Kallis,
Degree in Economic & Commercial Sciences (Athens)

Librarian
K. Georgakis
Dipl. Librarianship (Athens)

FOOTWEAR QUALITY CONTROL CENTRE

Instructor
A. Valiantis,
Tech. Engineer Diploma (HTI, Cyprus), Advanced Technicians Certificate in Footwear Technology & Practice (HTI, Cyprus)

Laboratory Assistants
Chr. Marcou,
Certificate of Work Measurement (C.P.C., Cyprus), Technicians Certificate in Footwear Technology & Practice (HTI, Cyprus)

Ch. Paikkos,
Advanced Technicians Certificate in Footwear Technology & Practice (HTI, Cyprus)
City & Guilds Certificate (Parts I & II) in Footwear Manufacture (U.K.)

WORKSHOPS DEPARTMENT

Workshop Superintendent
D. Roushas,
H.N.C. (U.K.)
Certificate of Education (HTI, Cyprus)

Instructors
E. Michael,
Tech. Engineer Diploma (HTI, Cyprus)

P. Chrysostomou,
Instructor's Certificate (Sweden)

S. Karseras,
Certificate of Education (HTI, Cyprus)

A. Shammas,
Dipl. in Welding (W. Germany), Certificate of Education (HTI, Cyprus)

G. Florides, (Lab. Assistant on secondment)
Tech. Engineer Diploma (HTI, Cyprus)

Ch. Tsioutis, (Lab. Assistant on secondment)
Tech. Engineer Diploma (HTI, Cyprus)

S. Savvides,
Tech. Engineer Diploma (HTI, Cyprus)

M. Shammas,
Tech. Engineer Diploma (HTI, Cyprus)

A. Loizides
Dipl. National Merchant Marine Academy (Greece)

I. Antoniou
Tech. Engineer Diploma (HTI, Cyprus)

G. Constantinides,
Tech. Engineer Diploma (HTI, Cyprus)

C. Georghiades,
Tech. Engineer Diploma (HTI, Cyprus)

A. Kyprianou,
Tech. Engineer Diploma (HTI, Cyprus)

Part-time Instructor
A. Tamanas,
Tech. Engineer Diploma (HTI, Cyprus)

ACCOUNTS

Accounting Officer
P. Anayiotos
Clerical Assistant
D. Papayianni (Mrs)

STORES

Storeman 2nd Grade
G. Georghiou

ADMINISTRATION

Clerk 2nd Grade
G. Hadjivassiliou

Private Secretary/Stenographer
S. Papachrysostomou (Miss)

Clerical Assistants
P. Constantinou (Miss)
P. Demosthenous
S. Christofidou (Mrs)
M. Adamou (Mrs)
M. Papa (Mrs)
A. Christofi (Miss)
M. Iasonos (Mrs)
G. Constantinou

Assistants
C. Solomonides
G. Charalambous

Aerial View of the H.T.I.

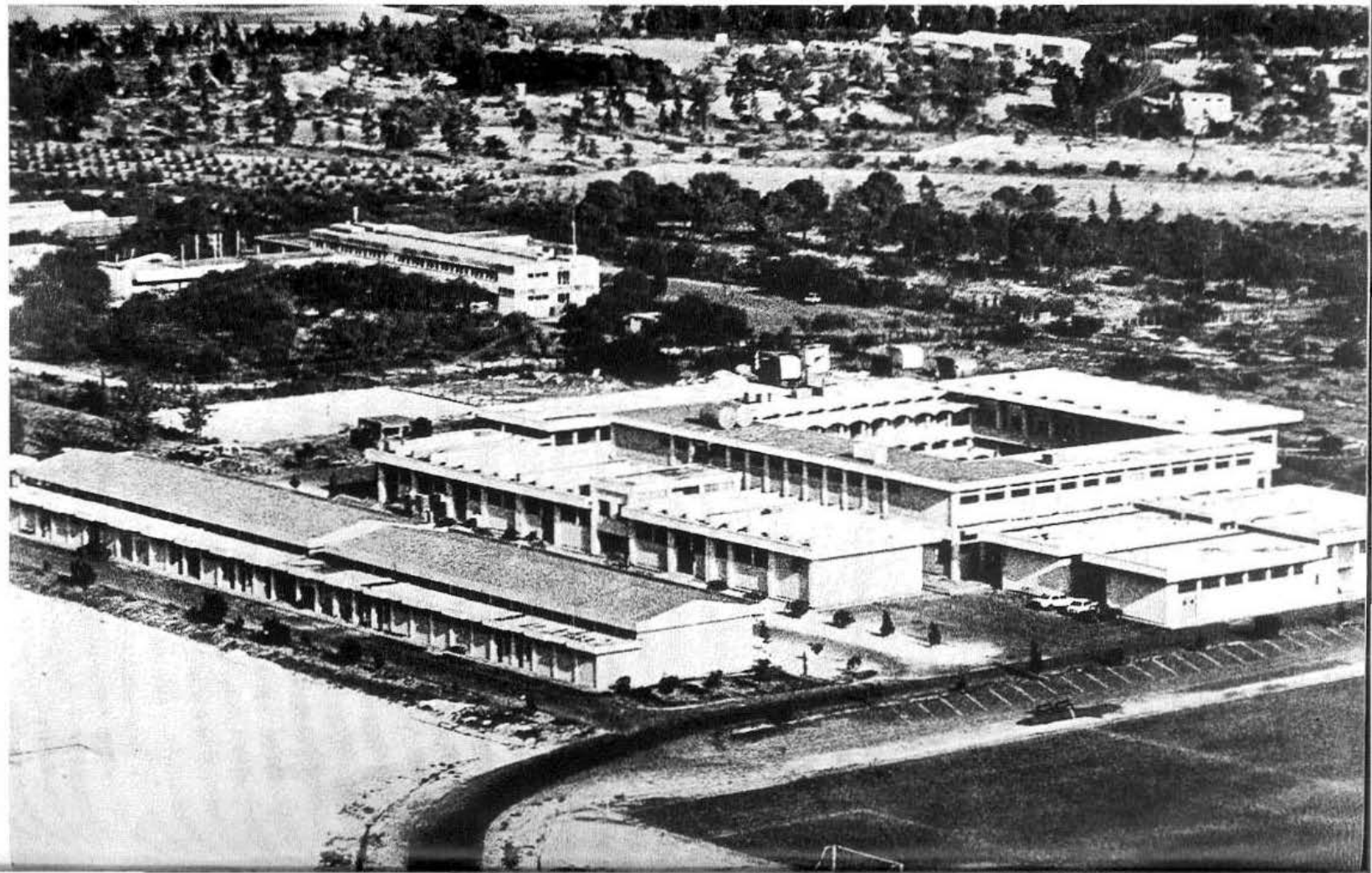
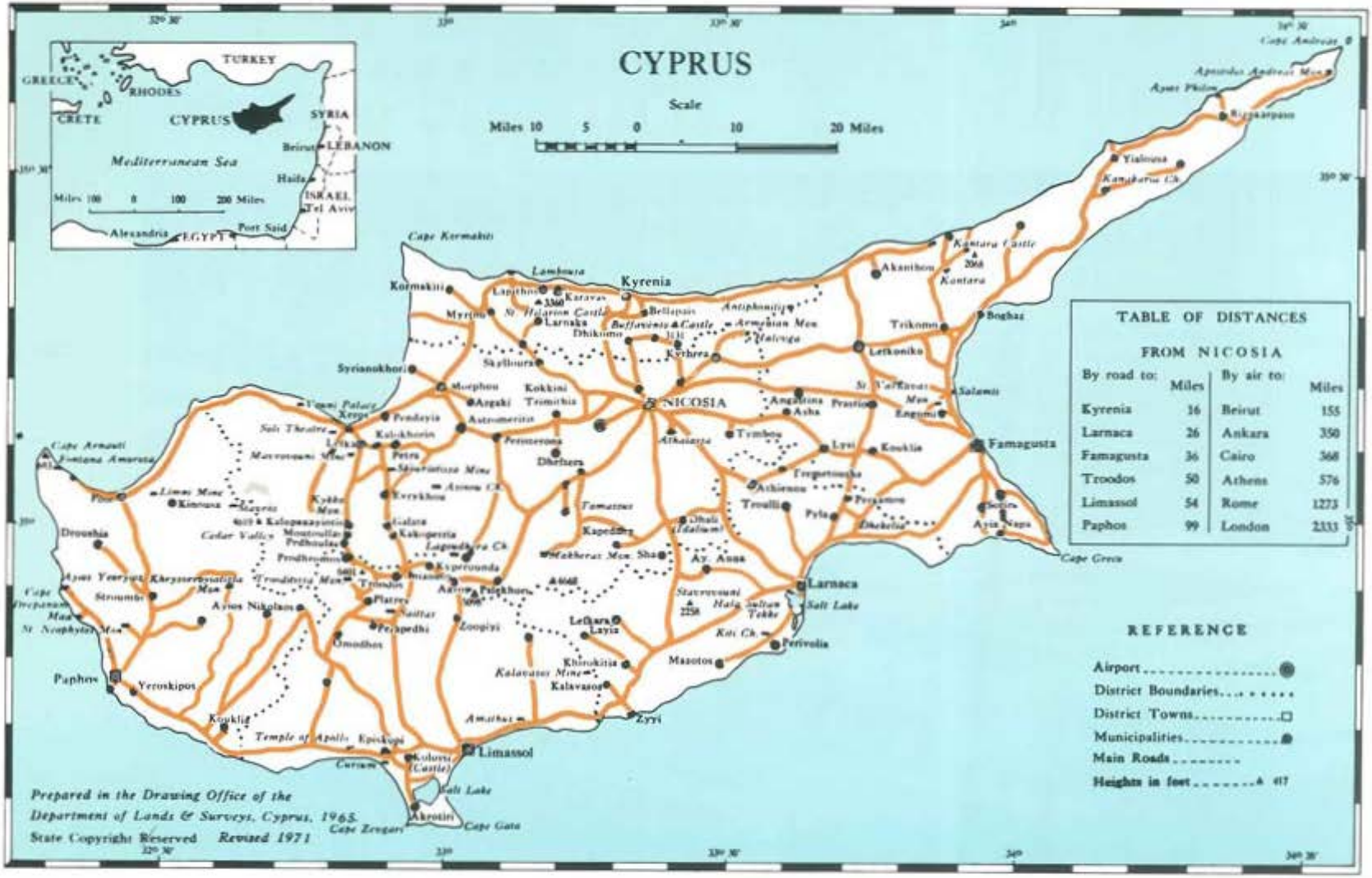


table of contents


CYPRUS
Scale
Miles 10 5 0 10 20 Miles
TURKEY
GREECE
RHODES
CRETE
CYPRUS
SYRIA
Beirut
LEBANON
Mediterranean Sea
Haifa
ISRAEL
Tel Aviv
Miles 100 0 100 200 Miles
Alexandria
EGYPT
Port Said
NICOSIA
Kyrenia
Famagusta
Larnaca
Limassol
Paphos
Cape Kormakiti
Cape Andreas
Cape Greco
Cape Arnauti
Cape Drepanum
Akrotiri
Cape Gata
Cape Zevgari
Salt Lake
TABLE OF DISTANCES
FROM NICOSIA
By road to: Miles
Kyrenia 16
Larnaca 26
Famagusta 36
Troodos 50
Limassol 54
Paphos 99
By air to: Miles
Beirut 155
Ankara 350
Cairo 368
Athens 576
Rome 1273
London 2333
REFERENCE
Airport
District Boundaries
District Towns
Municipalities
Main Roads
Heights in feet
Prepared in the Drawing Office of the
Department of Lands & Surveys, Cyprus, 1965.
State Copyright Reserved Revised 1971

A FEW WORDS

I. About Cyprus

Cyprus is an island in the East Mediterranean with an area of 3.572 square miles (9.251 sq. kilometres), and a population of about 650.000. The country's main sources of income are its agriculture, its industry and tourism.

Cyprus has a long civilisation going back several thousand years and in the course of which it has changed rulers many times. It came under Turkish rule in 1571 and remained so till 1878 when it was leased to the British and later became a British Colony. In 1960 Cyprus was granted independence and has remained a member of the British Commonwealth. Its population is made up of mainly two communities, Greek and Turk Cypriots, in the proportions of 80:18 per cent respectively.

In 1974 Turkey invaded and occupied the northern half of Cyprus while the Cypriots living in the area were forced to flee to the Government controlled south. Peace negotiations have been going on intermittently since then under the auspices of the United Nations. In the meantime, despite the upheaval caused by the invasion and continued occupation, the strict financial measures enforced by Government have brought about an economic miracle: the economy and life — at least in the Government controlled part of the island — have returned to normality, though consequences of the invasion have not been completely eliminated. Both industry and tourism have recovered and a large number or organisations dealing in the Middle and Far East have set up regional offices in Cyprus.

The special atractions offered by Cyprus are the high standard of living and amenities combined with a comparatively low cost of living; speedy and effective transport and communications with the rest of the world; a temperate climate; considerable historic interest and scenic beauty; widespread knowledge of the English language and a highly literate population most of which has been educated in the European tradition.

II. About the HTI

The HTI is situated in the outskirts of Nicosia in an area of 47.33 donums, i.e. 681.512 square feet (63.337,50 square metres) which comprises lecture rooms, laboratories, workshops, library, self-teaching centre, refectories and sports facilities.

Admission to the Institute is open to applicants who have completed six years of secondary education, and have passed the Institute's entrance examination. This examination, which covers English, Mathematics and Science is administered once each year in Nicosia and at various centres abroad.

The HTI as a training school for Technical Personnel

I. Regular Full-Time Courses

1. Courses

The HTI has a total capacity of about 550 regular students per year and offers the following full-time courses each being of three years duration.

Course	Students per year (New entrants)
Civil Engineering	60
Electrical Engineering	60
Mechanical Engineering	30
Marine Officers in Engineering	30
	180

2. Staff

The academic staff which comprises Lecturers, Workshop Instructors and Laboratory Assistants totals 55 persons, thus the staff/student ratio is 1:10.

3. Course Content

The teaching is carried out in English thoughout. The courses cover theoretical and practical work and also include periods of supervised training in industry. In the Marine Officers course such training is carried out at sea.

As H.T.I. courses are intended for supervisory middle management technical personnel, and for instructors for technical and vocational schools, all courses include aspects of management and teaching methodology. At the end of the course, after successfully passing all examinations and submitting a final year project, students are awarded the Diploma of Technician Engineer. Graduates of the Marine Officers course are awarded an equivalent diploma as Cadet Officers in Engineering of the Merchant Navy.

Students during a class in Surveying

Heat-treating a gear for surface hardening

4. Graduates

Up to July 1978, 562 graduates had been awarded the Diploma of Technician Engineer (220 Civil, 180 Electrical, 162 Mechanical). Another 91 students are expected to receive the Diploma this July as well as 23 Marine Officers who will be the first to graduate from the HTI. A list of all HTI graduates so far is given at pages 28 to 31.

5. Utilisation of Graduates

According to The Institute's records (which are only approximate) HTI Graduates are now doing the following:

Obligatory military service		170
Employment		
Industry	235	
Public Sector	88	
Semi-Governmental Organisations	9	332
Further Studies Abroad		60
Total		**562**

Student undergoing training at the Cyprus Petroleum Refinery

Students in the Ship's Engine Room

II. Special Courses

Short-Term Courses offered to persons in industry.

Course	Number of students who completed the course
Utilisation of off-peak Electricity, 1971	11
Concrete Mix Design, 1972	46
Methodology of Teaching, 1972	22
Course in basic Workshop Metrology and Inspection Methods, 1973	24
Quantity Surveying, 1973	35
Environmental Engineering, 1974	33
Course on Technology & Practice of Boot and Shoe Manufacture, 1975 & 1976	8 & 12
Advanced Course on Technology and Practice of Boot and Shoe Manufacture, 1977	15

A course for technicians on the Repair an Maintenance of Hospital and Medical Equipment, is currently taking place (Oct. 1978 - June 1979)

This course is sponsored by WHO as a regional course and is attended by 13 students.

III. Part-Time Courses

These Courses are for persons in industry and lead to qualifications equivalent to the full-time Course. Two courses have been organised so far

(a) Civil Engineering 1971-1976, with 11 Graduates, and

(b) Electrical Engineering, 1977-1982; 21 students are attending the course which is currently in its second year.

Gear cutting process in the Machineshop

The HTI as a leader in industrial development

I. Testing and Consultancy

The Institute's objectives include the offer of testing and consultancy services to industry, both private and public. This provides industry with certain specific services which cannot be obtained elsewhere, whilst keeping the staff in contact with industrial development.

This service is offered on a fee paying basis and while assignments may come to the Institute as a result of individual requests, they are usually promoted through the Industrial Extension Services of the Ministry of Commerce and Industry with which the Institute cooperates closely.

A selection of consultancies of special interest undertaken by the HTI in Cyprus include:

The repair for the first time in Cyprus, of two old cement silos at Moni Cement Works in 1975. The work carried out by the Civil Engineering Department of the HTI included:

- mapping and measuring of the cracks in the two silos;
- drilling concrete cores out of the silos for testing purposes;
- performing tensile tests with a Hounsfield extensometer; and
- proposals for the repair of the damaged silos

The Electrical Engineering Department was involved in consultancies concerning:

Testing and certification of water heating elements for Metalco Ltd(1973)

Calibration and testing of instruments for the Government Chemical Laboratory (1973) and Hellenic-Hitachi Ltd (1977)

Setting up the Electronics Laboratory of the Government Rehabilitation Centre (1977)

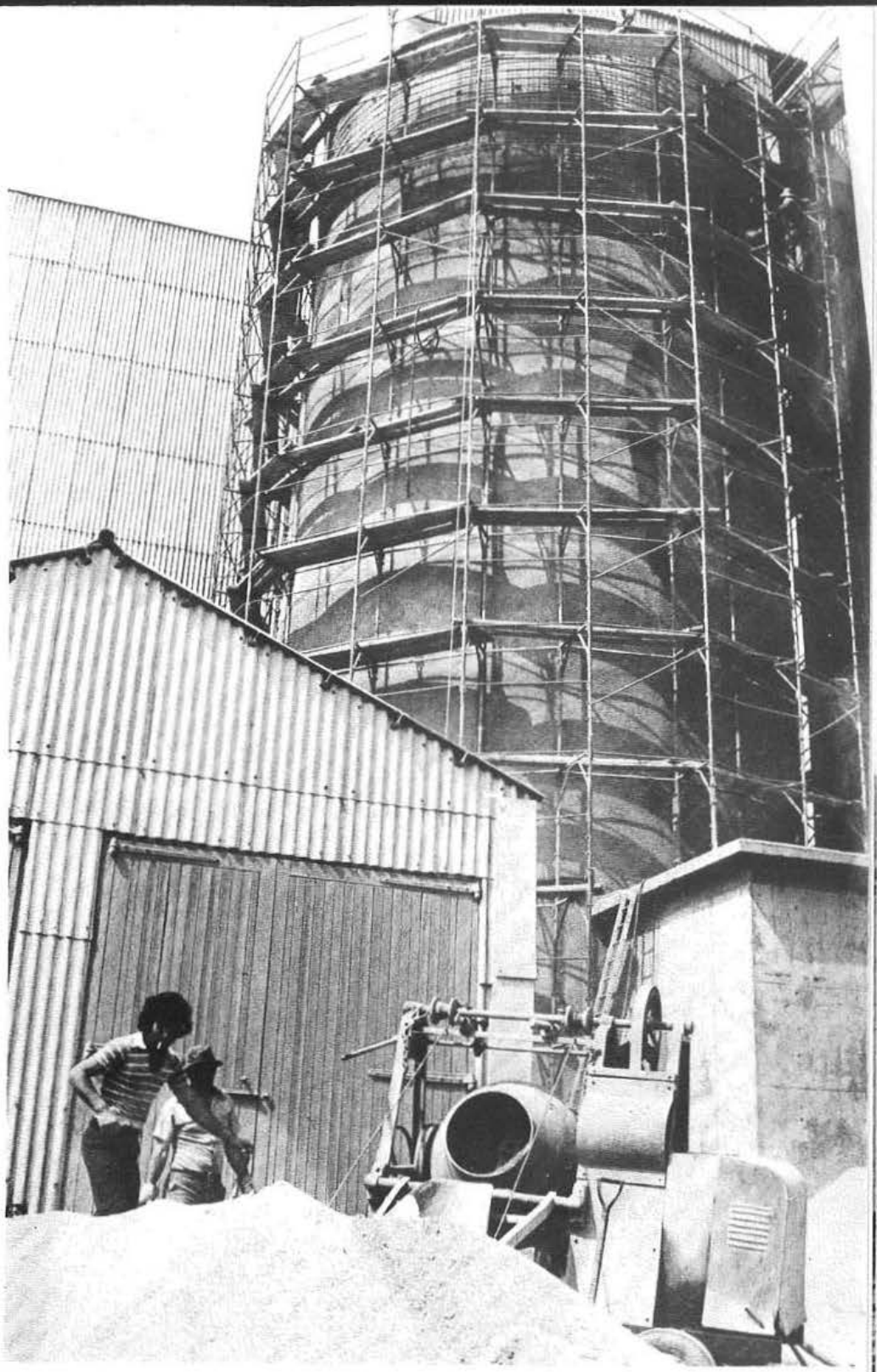
Mechanical Engineering consultancies included:

Execution of standard tests on locally manufactured products to ensure compliance with Cyprus Standards and other specifications, eg. tests on PVC pipes for United Plastics and on fiber glass baths and water tanks for Strand Fiber Glass (1977/78)

Noise and vibration measurements to testify compliance with international noise criteria. Such tests were carried out for Woolworths Stores and Hellenic bank (1978).

Design study for an experimental autarchic house using solar energy for heating and cooling purposes as well as for the operation of domestic appliances.

(For consulatancies undertaken abroad see page 24)



Repair of the cracked silos at Moni Cement Co.

II. Special Services

In cooperation with the Ministry of Commerce and Industry the HTI has undertaken the provision of certain specialised services in the following fields.

Testing and Quality Control of Leather and Leather Products

The increasing volume of footwear exports and the need to ensure a high standard of quality on all exported and locally sold footwear, caused the Ministry of Commerce and Industry, to set up a laboratory in 1975 for the testing and quality control of footwear and related products.

This laboratory, set up with the aid of the United Nations Development Fund and situated within the higher Technical Institute, is known as the Footwear and Leather Industries Quality Control and Testing Centre. It contains a wide range of specially designed testing equipment, on which tests are carried out to determine the suitability of materials and components used in the Footwear Industry. These tests are undertaken both at the request of manufacturers and as a check by Government on the quality of the footwear manufactured in Cyprus.

In addition to their laboratory work the Quality Control Inspectors also carry out 'on the spot' quality control checks in various footwear manufacturing units all over Cyprus. The ultimate aim of this centre is to carry out pre-shipment inspections on exported footwear.

With the aid of outside lecturers from the shoe industry, the staff of the Centre, organise part-time courses designed to bring the participants up to the standard of the City & Guilds Footwear Technicians Certificate, with a view to improving the knowledge and training within the Cyprus Footwear Industry.

Water Pump Testing Station

The design and construction of this Station was undertaken by the Mechanical Engineering department on behalf of CYS (Cyprus Organisation for Standards & Control of Quality). The main aim of the Station is to test locally manufactured deep-well axial flow turbine pumps according to ISO 2548 standard, with appropriate acceptance certificates being issued by CYS.

In order to achieve the required testing standards, highly sophisticated pieces of equipment have already been purchased and are in the process of being installed. The Station will no doubt contribute to the improvement of the quality of locally manufactured water pumps and to their successful marketing.

Metrology & Calibration laboratories

One of the laboratories of the Higher Technical Institute is the Workshop Metrology Laboratory. This laboratory has been established to serve as a training centre for the students of the Higher Technical Institute, but at the same time to serve Cyprus industry by offering short courses on various methods of linear, angular and surface finish measurements, and to improve the working standards of technicians in industry.

An extension to the Metrology Laboratory which is being organised in cooperation with the Cyprus Organization for Standards and Control of Quality (Ministry of Commerce and Indrustry) is the Calibration Laboratory. This will include devices for the calibration of electrical, pressure and temperature instruments as well as testing imported or locally manufactured products.

Crystallographic structure of iron as seen through the microscope (magninification 600)

THE HTI as a research centre

The facilities of the Institute in both expertise and equipment are utilised on a regular basis for the promotion of applied research work.

I. Final Year Students Diploma Projects

Original work is often carried out under these projects, some of which are sponsored by Industry or even by the Institute itself.

Noteworthy projects in the sense that they included both design and construction work have included:

— Remote Status indication as an automatic stand-by generating set (1973—74) used by the Cyprus Police to check the mode of co-operetion of their transmitter at their Troodos Relay Station.

— Remotely controlled scoreboard (1976—77) used to indicate the score in Basket-Ball games and loaned to a professional team, AEL, for their International European tournament.

— Microprocessor based telex data transmitter (1977—78) which will be used by the Cyprus Telecommunications. Authority for automatic pniuaup and transmission of telex messages.

— Design and construction of a Crucible-type furnace (1974/1975) which included the furnace, framework, insulation, firing and ducting systems, and is being used extensively in the Foundry Laboratory.

— Automatic Flow Control System (1977 1978). It entailed selection and matching up of the various control system components, the design and construction of the hydraulic circuit and the execution of experiments in order to investigate the dynamic behaviour of the system as a whole. It is used by final year students for laboratory experiments in the subject of Automatic Control and Instrumentation.

— Design and construction of a Pneumatic Press (1977/1978). It entailed design and construction of the pneumatic power system and framework. The power press is used in the Mechanical Workshops and could also be utilised in mass production processes.

Drop of Blood as seen under the microscope (magnification 1.500)

II. Energy Research Group (ERG)

A research group to promote scientific activities related to energy matters was established in February 1979, by the academic staff of the HTI under the name of Energy Research Group (ERG).

The main objectives of ERG are to study the efficient utilization and conservation of energy in its conventional and uncoventional forms and to contribute to the world-wide effort for energy conservation.

As a means of achieving its objectives ERG has already established contact with similar organisations locally and abroad.

The main areas of study of ERG are the following:

(a) Conventional Energy
(b) Solar Energy
(c) Wind Energy
(d) Bio Energy
(e) Wave Energy

A multi-dissiplinary team consisting of qualified engineers and technicians was formed for each area of study, whose task it is to collect related literature/state of the art, report on experimental work locally and abroad and propose and carry out suitable project work.

Following a recent Energy Planning Meeting organised by the Commonwealth Science Council in London, ERG undertook the formulation and proposal of a number of projects related to energy, to be financed and implemented in the near future.

Examining a specimen under a metallurgical microscope.

The HTI as a promoter of general Scientific/Cultural Activities

I. Publication of the annual HTI Review

The HTI Review is published by the Higher Technical Institute in cooperation with the Public Information Office. Its first issue came out in June 1971 and since then it has become an annual tradition. It is a venue for both staff and students to write on engineering and other topics. Articles reflect the basic policy behind the courses and activities of the HTI which is the promotion of technical knowledge and technology for use by the developing industry of Cyprus.

II. Astronomy Club

The Astronomy Club of the HTI was founded in 1974 by a member of the lecturing staff as an extension of the Cyprus Astronautical Society, with the aim of introducing its members to the astronomical and astronautical sciences.

The Club has functioned actively during the past years and a number of lectures were given by members of the Higher Technical Institute and other speakers on various topics of interest.

This year the Astronomy Club, with the cooperation of the Students' Union, invited the Soviet Cosmonaut Vladimir Zountof who visited the HTI on 10th April and gave a lecture on 'Space travels'.

Russian Cosmonaut Vladimir Zountof being received by A. Achillides, founder of the HTI Astronomy Club, and the Institute's Director, G. D. Christodoulides

III. Radio Club

Under the guidance of a member of staff the students have formed a Radio Club which has been equipped with fine electronic facilities. The Club has established contact with amateur radio enhusiasts all over the world and has become a member of the Radio Society of Great Britain and of the Cyprus Amateur Radio Society.

IV. Programmed Learning Self-Study Laboratory

A laboratory is in the process of being set up which will offer students, graduates and persons already in industry the opportunity to up-date or acquire new knowledge through self-study methods and programmed tests.

V. UNESCO Day Celebration

Since 1977 the HTI has established the tradition of Celebrating UNESCO day each November by visiting a place of special cultural/historical interest. In 1977 the Institute's staff and students visited the Chapelle Royale at Pyrga village and in 1978 the Tekke Moslem Shrine outside Larnaca. On both occasions the visitors also cleared away the overgrowth and tidied the surrounding area from scattered litter.

The Self-Study Centre

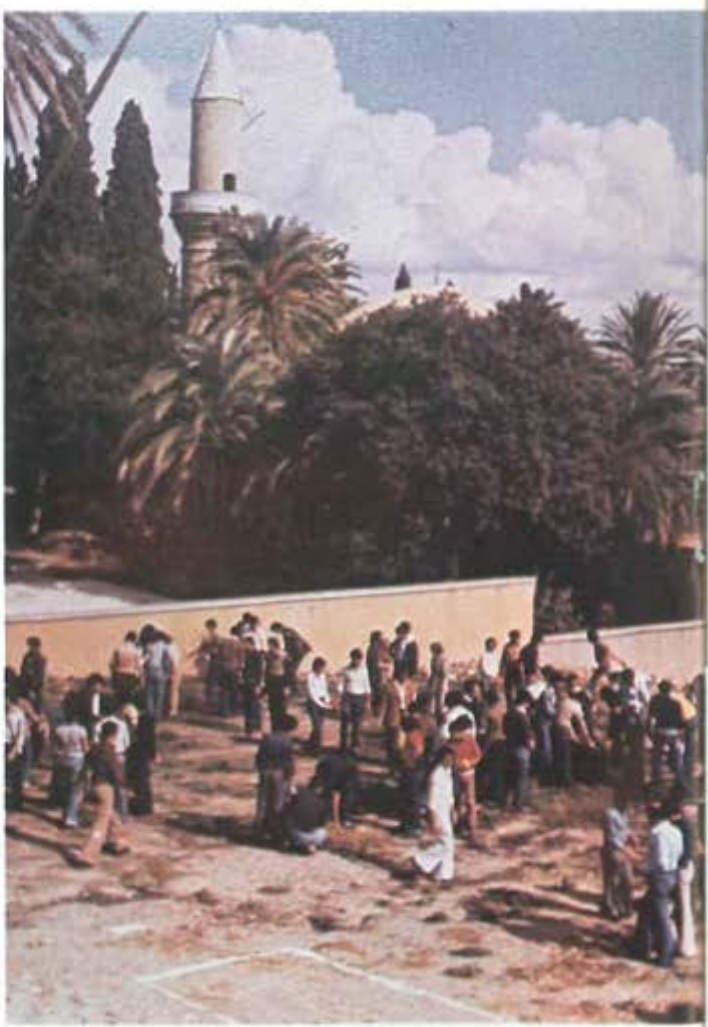
The HTI as an intercommunal institution

As has been mentioned, the Cypriot population is made up of Greek and Turk Cypiots (in the proportion of 80:18 per cent), and up to 1974 both communities participated in the Institute's activities on a formal and informal level.

The Board of Governors included Greek & Turk Cypriots who actively cooperated in sub-committee and other work; out of 22 staff in the academic year 1973-74, one Lab. Assistant, and six Lecturers were Turk Cypriots including the Head of the Mechanical Engineering Department. In the same year 16 Turk Cypriot students were attending the Institute and both Greek and Turkish national and religious holidays were observed generally.

Although courses are usually held in English, in the case of special courses for participants from industry, they may be held in the language of the participants. In 1972 a course in Concrete Mix Design was conducted in Turkish for memebers for the Turk Cypriot community.

At the unofficial level relations between members of either community were very friendly and no better evidence can be given than the fact that Greek and Turk Cypriots were elected to the Students Union and Staff Union, the latter being for two years chaired by a Turk Cypriot lecturer.



H.T.I Staff & Students at the Tekke Moslem Shrine outside Larnaca

The HTI as a Regional Training Centre

At various stages of the Institute's development UNESCO has raised the question of formally promoting it into a regional training centre for citizens from neighbouring countries.

Although this project has not proceeded on a formal basis due to the financial commitments required both of UNESCO and participating countries, the Institute is, in an informal way and on a paace meal basis, turning into a regional centre.

I. Overseas Students

The Institute offers one scholarship each year, to an overseas student who comes from a Country of the British Commonwealth; in addition it offers the possibility of accepting a number of overseas students on a fee-paying basis. By policy decision the HTI may offer up to 25% of its places to overseas students provided they pass the Institute's entrance examination which is conducted at various centres abroad.

The number of overseas applicants has increased from year to year and the Institute's entrance examination is now conducted in Greece, Botswana, Ghana, Kenya, Nigeria and Rhodesia. In addition to those applying individually the Governments of Botswana, Kenya and the Seychelles have asked that places be allotted to Government-sponsored students from their countries, and twelve places are also reserved for Zimbabwean students sponsored by the Commonwealth Fund.

As overseas students often face difficulties in passing the entrance examinations due to the difference in their educational system, in order to assist them further, the HTI is considering the possibility of offering in future a special preparatory course for overseas students.

Testing the adjustment of an X-Ray bed unit

II. Course for Technicians in Repair and Maintenance of Hospital and Medical Equipment (in Collaboration with the World Health Organisation)

The regional character of the HTI was further enhanced by the undertaking in August 1978, of a five-year joint project between the Cyprus Ministry of Health and the World Health Organisation. The purpose of the project is to train Hospital Technicians in the repair and maintenance of hospital and medical equipment. Training is based mainly at the HTI with some on-the-job training at Nicosia General Hospital. The countries from which the students may be chosen cover a very large area of the world, stretching from Pakistan in the East, to Somalia in the South and Tunisia in the West. The five year joint project envisages three types of courses. The first, which began in September 1978, is for the training of General Technicians and will be followed by courses for Specialised Technicians and Hospital Engineers. Attending the first course are 13 students from eight different countries (Afhanistan, Pakistan, Iran, Jordan, People's Republic of South Yemen, Somalia, Sudan and Cyprus).

A medical equipment laboratory has been specially set-up for the training proposed and will be further extended. With this course the HTI hopes to contribute to the improvement of the Hospital Technical Services of Cyprus and the other countries involved.

III. Consultancy

It is an established policy of the HTI to offer not only training to overseas applicants but also consultancy services to overseas governments and/or organisations.

So far two such consultancies were undertaken by the Electrical Engineering Department, both in the Arabian peninsula. They were:

- Verification of design, supervision of installation and commissionning of the 66 KV Transmission system for Dahran Electric Power Corporation, Saudi Arabia (1973).
- Design of High Voltage distribution and Stand-by Generation for the Royal Guards Headquarters, Muscat, Oman (1975).

The HTI within the Community

In spite of the fact that engineering and technology is the Institute's main preoccupation, the Institute is also interested in being useful to the community at large. Its contribution includes the following:

I. Use of HTI Sports Facilities by the Public

The Sports facilities available at the HTI, whose construction has been financially assisted by the Cyprus Sports Organisation, include two football grounds, one basket-ball and one volley-ball ground. Whenever these facilities are not in use by HTI students, it is the Institute's policy to offer them for use by outsiders. For the past three years they have been regularly used

a) by first division team, 'Olymbiakos' and second division team, 'Ethnikos Assias' for weekly training,
b) by third division teams and the Amateur Football League for weekly matches,
c) by hammer throwing athletes for training

Occasionally these facilities have been used by the National Guard and other teams either for training or matches.

II. Blood Donation

There has been a close cooperation between the HTI and the Blood Bank of the Nicosia General Hospital. The blood type of every HTI Student has been tested and classified.

HTI Students always stand by to assist as blood donors in emergency cases and this has by now become an established practice.

Blood Donation at the Nicosia General Hospital

III. Acropolis Public Gardens

In cooperation with the Department of Planning and Housing a master-plan has been drawn up to convert Government land in the Acropolis Area of Nicosia into a Public Garden.

HTI students who are willing to do so, undertake through their Diploma Projects detailed planning of various sectors of the master plan.

Furthermore a group of students under the guidance of an HTI instructor has completed the installation of the electrical supply to the Gardens' Water Pump. Another group, also under guidance, is now in the process of erecting the first kiosk which will provide shaded seating for visitors.

Acropolis Public Gdns: Students working on the Kiosk

HTI GRADUATES SO FAR
July 1971 - July 1978

Graduates of the Year 1971 (total 66)

Civil Engineering

Joseph Andreou
Petros Andreou
Pavlos Andreou
Chrystalla Antoniou
Georgios Constantinides
Efstathios Eliades
Costas Evripidou
Constantinos Gerghiades
Natalia Haraki
Ierotheos Kallias
Panayiotis Karayiannis
Andreas Mikallos
Christos Mikellides
Christodoulos Michael
Philippos Nicolaides
Panayiotis Parpas
Alexandros Soteriades
Chrystalla Stavrinou
Nicos Stergides
Christos Themistocleous
Panayiotis Theodorou
Antonios Tjiakouris
Michael Valiandes
Theophylaktos Zintilas

Electrical Engineering

Georgios Andreou
Yiannakis Antoniades
Pambos Charalambous
Loizos Christou
Ioannis Constantinou
Markos Constantinou
Ioannis Demetriou
Savvas Demetriou
Andreas Florides
Georgios Gogakis
Michael Hdjikyriakou
Andreas Karayiannis
Georgios Karageorghis
Ioannis Kombos
Michael Kyprianou
Efstathios Michael
Georgios Oxinos
Savvas Papayiannis
Theodoros Phanartzis
Antonios Pieri
Savvas Savvides
Antonios Sourmelis
Polydefkis Stylianou
Georgios Tsangaras
Pavlos Vonjatis
Savvas Zambakides

Mechanical Engineering

Adonis Agapiou
Michael Antoniades
Nicolaos Cleanthous
Stavros Constantinou
Spyros Courtellaris
Zenon Galatis
Kypros Hadjikypris
Marios Ioannides
Charalambos Kalogirou
Ioannis Michaelides
Costas Paris
Thedoros Symeou
Joseph Terzis
Chrysanthos Voskos
Yiannakis Yiannaki
Soterios Yiannoukos

Graduates of the Year 1972 (total 43)

Civil Engineering

Michael Agathocleous
Hassan Ali
Stylianos Eleftheriou
Andreas Hatjiloukas
Kaya Hashim
Socrates Ioannides
Andreas Kalogirou
Eleni Kouzoupi
Andreas Kyriakou
Kyriakos Kyrou
Georgios Lazarou
Yiannoulla Mavrogiorgi
Andreas Michael
Chrystalla Nisiotou
Loizos Pittas
Savvas Savva
Vasilios Yiakoupis
Constantina Zourou

Electrical Enginnering

Erdem D. Alaeddin
Nicos Christou
Evripides Constantinides
Panayiotis Eleftheriades
Georgios Kourouniades
Hussein Onen
Christakis Pambakas
Demetrios Petrides
Costas Potamos
Andreas Vassiliou
Costas Zisimou

Mechanical Engineering

Eraclis Adamantiou
Georgios Andreou
Antonakis Antoniou
Ioannis Antoniou
Constantinos Constantinides
Demetrios Demetriou
Panayiotis Demetriou
Ouranios Dicomitis
Prodromos Isaias
Kyriakos Kyriakou
Georgios Panagi
Michael Rossides
Savvas Savvides
Georgios Yiannikos

HTI GRADUATES
July 1971 — July 1978

Graduates of the Year 1973 (total 62)

Civil Engineering

Chrysilios Agapiou
Stavros Agapiou
Meletios Apostolides
Neophytos Charalambides
Androula Christodoulou
Nicodemos Christofi
Lefkios Cleanthous
Epaminontas Constantinides
Ioannis Economides
Kyriakos Economides
Stavros Georgakis
Loucas Georgiades
Keeshore Gyjadhur (Mauritius)
Ioannis Kalogirou
Christos Kastoris
Tulin Kemal
Stylianos Kizas
Vecihe Kurshat
Pavlos Kyriakides
Kyriacos Kyriacou
Michael Michael
Sophia Pitsilidou
Michael Pitas
Pavlos Sividanides
Stefanos Stefanou
Antonios Theologos

Electrical Engineering

Marios Antoniades
Andreas Aristidou
Xenophon Attikis
Christodoulos Constantinou
Christakis Christou
Constantinos Christou
Socrates Hadjimichael
Constantinos Ioannou
Christos Josephides
Christos Marouchos
Alexandros Matsis
Sotos Metaxas
Michael Michael
Nicos Neophytou
Charilaos Papandreou
Costas Parpas
Philippos Pias
Andreas Stavrou
Andreas Themistocleous
Vryonis Themistocleous

Mechanical Engineering

Nicolaos Andronicou
Georghios Aristidou
Christodoulos Christodoulou
Georghios Florides
Stavrakis Ioannides
Georghios Ioannou
Andreas Kapris
Kypros Lambrou
Moustafa Mehmet
Michael Michaelides
Kyriacos Nicolaou
Andronicos Papademetriou
Stavros Siaelis
Christakis Soteriou
Polyvios Theodorides
Anthoulis Valiantis

Graduates of the Year 1974 (total 76)

Civil Engineering

Christakis Charalambous
Andreas Chimarrides
Andreas Christofi
Chrysostomos Chrysostomou C.
Chrysostomos Chrysostomou G.
Georghios Constantinou
Panayiotis Daniel
Maria Falekkou
Ioanna Hatjipantela
Antis Ioannides
Ioannis Ioannides
Theodoros Kailas
Evagoras Kimonos
Panayiotis Koliandris
Doros Kyriakides
Savvas Kyriakou
Kyriakos Lagos
Hilton McDavid (Guyana)
Maria Olymbiou
Guner Osman
Savvas Palechoros
Renos Petrou
Savvas Stylianou
Stelios Stylianou
Spyros Tsangaris
Ioannis Tsouris

Electrical Engineering

Andronikos Andronikou
Costas Archeos
Peter Chela (Zambia)
Maria Constantinou
Socrates Efstathiou
Demetrios Frangoudis
Mikis Hadjipanayis
Panayiotis Joannides
Constantinos Kalvaris
Antonios Koliandris
Ioannis Koutouroushis
Kypros Kyprianou
Soterios Kyrizis
Andreas Loizou
Georghios Mavromoustakis
Michael Michael
Costakis Nicolaou
Pantelis Philaniotis
Demetrios Savvides
Georghios Stefanou
Evangelos Theodoulou
Soterios Voskarides
George Xypsitis

Mechanical Engineering

Sophoclis Aristidou
Michael Charalambous
Peter Chomba (Zambia)
Georghios Engomiti
Georghios Efthymiou
Kyriakos Frangou
Kyriakos Kalaidjis
Zisos Kallenos
Petros Kafouris
Ioannis Kortesis
Antonios Kikas
Yiannakis Lazarides
Christakis Loukaides
Kyriakos Mama
Andreas Mina
Kypros Panayi
Michael Papamichael
Erineos Phokas
Ioannis Rossides
Savvas Tassou
Antonios Xenophontos
Andreas Yerakiotis
Constantinos Yiannakis
Ioannis Zambirinis
Christakis Zavros
Spyros Zavros
Stavros Zavros

HTI GRADUATES
July 1971 - July 1978

Graduates of the Year 1975 (total 70)

Civil Engineering

Christos Andreou
Andreas Arotis
Evripides Apostolides
Despina Chimonidou
Andreas Christodoulou
Maria Christodoulou
Thekla Christodoulidou
Hariclia Chrysanthou
Constantinos Constantinou
Constantinos Demetriades
Nicolaos Demetriou
Michael Florides
Georghios Ioannides
Loukia Ioannou
Maria Loizia
Andreas Michael
Georgia Masouri
Andreas Papanicolaou
Christos Papastavrou
Andriani Papachristodoulou
Kyriacos Papoui
Constantia Rossidou
Andreas Savva
Iouliani Spyrou
Theodosia Theodosiou
Aristides Vassiliou
Isidoros Makrides

Electrical Engineering

Georgios Archeos
Savvas Argyrou
Andreas M. Christou
Chris Christou
Athenodoros Charalambous
Elpiniki Christodoulou
Philippos Christodoulou
Panayiotis Chrysandreou
Andreas Eliades
Panayiotis Hadjimichael
Loizos Loizou
Demetrios Michaelides
Phrixos Michaouli
Andreas Nicolaides
Alekos Nicolaides
Andreas Papaconstantinou
Artemis Papacosta
Georghios Papagiorgis
Lambros Papayiannis
Stelios Papageorghiou
Elias Sakka
Andreas Stefanou
Christos Tryfonos
Zenios Zeniou

Mechanical Engineering

Andreas Agapiou
Sophoclis Agapiou
Panayiotis Christodoulou
Vassos Christodoulou
Elias Chrysanthou
Constantinos Zenonos
Thomas Georgallas
Costas Ilarionos
Anthoulis Iosephides
Costas Karseras
Georghios Kolyfas
Constantinos Koukoulis
Costas Michael
Maria Pyrgou
Marios Siammas
Nicolaos Skarparis
Yiannakis Theodorou
Charalambos Tsioutis
Constantinos Xihilos

Graduates of the Year 1976 (total 75)

Civil Engineering

Marios Alexandrou
Neophytos Anastasiades
Michalakis Angelides
Marios N. Batas
Argyris A. Constantinides
Anthoula Ev. Drakou
Marina Eleftheriou
Georgios Galazis
Christos A. Hadjichristou
Michael K. Katsambas
Androula Kouphali
Andreas D. Kyprianou
Mike Kyriacou
Niki A. Kypragora
Clement S. Lerotholi (Lesotho)
Stelios J. Makrides
Elias A. Moutiri
George S. Pelecanos
George Pappas
Sotiris Piperis
Andreas Photiades
Vasilios Sgouros (Greece)
Louis Trichinas
George A. Xenophontos
George Ap. Yenagritis
Marios S. Yiasemides

Electrical Engineering

Christakis Christofides
George Christodoulou
George Constantinou
Andreas Ph. Demetriou
Aristoteles Efthymiou
Constantinos P. Georghiades
George O. Georghiou
George V. Georghiou
Christoforos Hadjittofi
Michael Hadjicharalambous
Soterios Hadjioannou
George Kikos
Rotis N. Kililis
George Kyriacou
Loizos Kyprianou
Stavros Lambrou
Neophyta Nearchou
Nicos N. Papanicolaou
Andreas Petsas
Kyriacos Savva
John K. Souroullas
Petros A. Spanos
Nicolaos Tsadiotis
Stylianos Tsiakkaris
Andreas Varelias
Xenophon Xenophontos

Mechanical Engineering

Andreas Christodoulou
Constantinos A. Christofi
Stelios Christofides
Michael Chrysafis
Charis Constantinides
Andreas S. Demetriou
Panos Economou
Ioannis I. Angeli
Socrates L. Karamichalis
Christos Kitromilides
George Kitsios
Charalambos Kyriacou
Demetrios Leonti
Andreas Markides
Charalambos Michael
Petros Neophytou
Marios N. Nicolaou
Kyriacos Papavassiliou
Herodotos Pentas
Kyriacos Savva
Achilleas G. Tamanas
Sophia Chr. Touloupou
Hindawi H. Ziad (Jordan)

HTI GRADUATES
July 1971 — July 1978

Graduates of the Year 1977 (total 64)

Civil Engineering

Athinoulla Andreou
Antonakis Antoniou
Andreas Argyrou
Yiannakis Chrysanthou
Christos Constantinou
Costas Gabrielides
Costas Georghiou
Michael Hadjimitsis
Evangelia Hadjiyiannakou
Andreas Heracleous
Christos Ioannou
Monica Ioannou
Maria Kallona
Ioanna Kaskiri
Andreas Kyriacou
Georghios Michaelides I.
Georghios Michaelides K.
Georghios Moussas
Polyxeni Neophytou
Elias Shiammas
Sotirios Souroullas
Evis Stavrinides
Christos Stavrou
Stavroulla Stavrou
Photini Stylianou
Irene Symeonidou
Stavros Theodosiou
Panayiotis Theophanous
Georghios Tofarides
Constantinos Zardis

Electrical Engineering

Alkis Christofi
Costas Constantinou
Andreas Elia
Yiangos Frangoulides
Andreas Gregoriou
Soterios Hadjimatheou
George Hadjicostis
Charalambos Hadjigeorgiou
Michael Kouroufexis
Demosthenes Ktenas
Kyriacos Kyriacou
Neoptolemos Masouras
Georgios Mantsangos
Charalambos Michaelides
Nicolaos Mylona
Marios Nikitas
Andreas Papageorghiou
Photos Pasantas
Chrysostomos Rialas
Andreas Savva
Savvas Savva
Charalambos Shiamishis
Nicos Stelikos
Stylianos Stylianou
Petros Theodorou
Christos Trachonitis
Andreas Tsangarides
Zenon Zenonos
Theophanis Theophanous

Mechanical Engineering

Georghios Alkiviades
Andreas Christou
Chrysostomos Demetriou
Demetrios Demetriou
George Eleftheriades
Constantinos Georghiou
Evgenios Hadjipetrou
George Hadjisophocleous
Michael Hadjiyar.ni
Andreas Ignatiou
Elias Ioachim
Andreas Ioannou
Evgenios Ioannou
Christakis Italos
Andreas Kareklas
Kyriakos Koulendis
Marios Kyprou
Nicolaos Markides
Vasilios Mesaritis
Yiannakis Michael
Georghios Nicoli
Procopios Polydorou
Andreas Solomou
Andreas Themistocleous
Theodoros Theodorou

Graduates of the Year 1978 (total 85)

Civil Engineering

George Alexandrou
Anastassios N. Anastassiou
Stephanos Andreou
Aristos G. Aristides
Andreas Charalambous
Phivos Charalambous
Herodotos Chimona
Dora Constantinou
Michalakis Constantinou
Yiannakis Droushiotis
Chrysostomos V. Georghiou
Maria Gàbriel
Yiannoula Kalli
Cleopatra Kapassouri (Greece)
Kalliope Kastania
Georghios Kollakides
Kyriacos Kalopsidiotis
Maria Loizidou
Panicos Machalepis
Charalambos Makris
Paphitis P. Menelaou
Andreas M. Michaelides
Maria I. Michaelides
Soterios Mouskos
Ioannis Papaioannou
Photios Photiou
Christodoulos Shiamaris
Sophoclis Sophocleous
George Tjionis
Christakis N. Vaganas
Vassos Vassiliou

Electrical Engineering

Andreas Andreou
Kyriacos Avgousti
Marios Charalambous
Demetrios Demetros
Georghios Georghiou
Andreas Demetriou
Christos Hadjigavriel
Charalambos Hadjimatheou
Christakis Kallinos
Christoforos Koutouroushis
Soterios Ktoris
Kyriakos Kylilis N.
Christos Kyprou
Andreas Malais
Andreas Mardapittas
Socrates Masouras
Andreas Michael
Nicolaos Nicolaides
Nicos Nicolaou
Panayiotis Nicolaou
Pavlos Nicolaou
Nicos Paraskeva
Constantinos Petrou
Artemios Tilliri
George Vassiliou

Mechanical Engineering

George Antoniou
Charalambos Charalambous
Costas Charalambous
Theodoros Charalambous
Costas Charilaou
Christodoulos Christodoulou
Christodoulos Chrysanthou
Andreas Cleanthous
Christakis Doulappas
Soterios Georgiades
Andreas Kamenos
Christakis Koukoullis
Ioannis Koumides
George Kouzalis
Haris Kridiotis
Michael Kylilis
Louis M. Loizou
Michalakis Papaioannou
George Pachis
Ioannis Petsas
Andreas Photiades
George Pillatsis
Georghios Procopiou
Michalakis Samoutis
Islam Shafiqul (Bangladesh)
Renos Symeou
Loizos Tepelis
Demetrios Tjiakouris
Ioannis Yiannakou

Text and Editing: ***Artemis Yiordamlis***
Published by the Public Information Office

Printed by Printco Ltd
May 1979.

Photography: ***Ionas Angeli***