

A. U. B.
SCHOOL OF
ENGINEERING

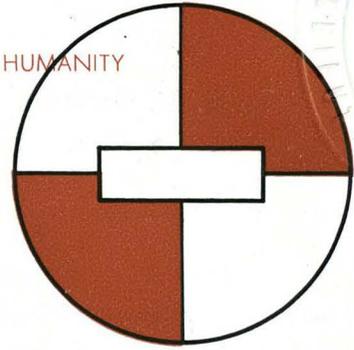
YEARBOOK

1953

published by the engineering student society A.U.B.

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SERVICE TO HUMANITY



school of
engineering

the 1953 year book

American University of Beirut

BEIRUT, LEBANON

cat. 12 Jan. '54

To **S. D. Bechtel**, the engineering students
dedicate this book with appreciation

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This scholastic year was quite eventful for the Division of Engineering from the very first day.

Early in October, engineering students walked into the dingy offices at Bliss Hall to register and found them abandoned. They were instructed to head for the new factory-like building where the school had set up its headquarters. As they proudly inspected their future plant many "restricted areas", still under construction, had to be avoided. Some rooms were still doorless. The first few "Saturday composite quizzes" — the new style exams — had to be performed at "attention" since the stools in the Drafting Room were not there. Soon things began to come into shape. Doors, green chalkboards, bulletin boards, etc . . . , all were gradually installed. The Milk Bar was opened early in April. Few finishing details for the plant will have to wait till next year. Meanwhile the engineering students watched the new sleek Vocational Laboratories and Shops spring up and come into shape. The new shops will be in operation this summer. In some respects the School year 1952-1953 was uneventful since the lately popular style of strikes and riots was discontinued, although President Penrose and later Dean Weidner upheld this tradition by going "on strike" and taking leave to the U.S. We hope their missions will be met with success.

The Engineering Student Society carries on its tradition by publishing this second Yearbook. The class of 1953 — the first class to graduate from the new plant — will find in this publication a precious souvenir commemorating that event.

Engineer's Oath

Using the heritage left by my professional forebearers, I dedicate myself to the pursuit of knowledge and the search for truth in the extension of the benefits of my profession to humanity. I will strive always to disseminate what engineering knowledge I acquire. And I will fully accept my responsibility for the instruction of younger members of my profession.

Jealous of the high repute of my calling, I will strive to protect the interests and the good name of any engineer.

To all, I pledge integrity and fair dealing, tolerance and respect, and devotion to the standards and dignity of my profession. I gladly accept the obligation to use my special knowledge and expertness to serve humanity with complete sincerity.

I will strive faithfully to fulfill the solemn obligations of my profession and to govern my life and practice by its Canons of Ethics.

SCHOOL OF ENGINEERING, A.U.B.

يَمِينِ الْمُهَنْدِسِينَ

أَتَعَهَّدُ مُسْتَعِينًا بِالْأَرثِ الَّذِي تَرَكَهُ أَسْلَافِي فِي هَذِهِ الْمِهْنَةِ أَنْ أُكْرِسَ نَفْسِي
لِلسَّعْيِ وَرَاءَ الْمَعْرِفَةِ وَالْبَحْثِ عَنِ الْحَقِيقَةِ فِي إِمْدَادِ الْمُجْتَمَعِ بِمَا فِي مِهْنَتِي
مِنْ فَوَائِدَ وَسَأَبْذُلُ جُهْدِي دَوْمًا فِي نَشْرِ مَا اكْتَسَبْتُهُ مِنْ عِلْمِ هِنْدَايَ
وَأَخْذِ عَلَى نَفْسِي أَنْ أَعْلِمَ الشَّبَابَ الْمُتَمَيِّنِينَ إِلَى هَذِهِ الْمِهْنَةِ.

وَحِفَظًا عَلَى مَا تَمَتَّعَ بِهِ هَذِهِ الْمِهْنَةُ مِنْ رَفِيعِ الْمَقَامِ فَأَبْتَغِي سَأَبْذُلُ
جُهْدِي فِي حِمَايَةِ مَصْلَحَةِ كُلِّ فَرْدٍ مِنْ زَمَلَائِي الْمُهَنْدِسِينَ وَالْحَافِظَةَ
عَلَى سِمْعَتِهِ الطَّيِّبَةِ.

وَأَتَعَهَّدُ لِلْجَمِيعِ بِالْأَمَانَةِ وَصِدْقِ الْعَامِلَةِ وَالتَّسَامُحِ وَالاحْتِرَامِ وَالْوَلَاءِ
بِمَا تَطْلُبُهُ مِثْلُ هَذِهِ الْمِهْنَةِ وَكِرَامَتِهَا. وَأَعِدُّ بَأَنْ أَضْعَ عَلَيَّ وَخِبْرَتِي فِي
خِدْمَةِ الْمُجْتَمَعِ بِكُلِّ مَا أُوتِيتُ مِنْ إِخْلَاصٍ.

وَأَعِدُّ بَأَنْ أَقُومَ بِكُلِّ أَمَانَةٍ بِمَا تَقْتَضِيهِ وَاجِبَاتُ مِهْنَتِي وَأَنْ أُسَيِّرَ حَيَاتِي
وَأَعْمَالِي بِمُوجِبِ قَانُونِهَا إِخْلَاقِيًّا.

مدرسة الهندسة، الجامعة الأميركية في بيروت

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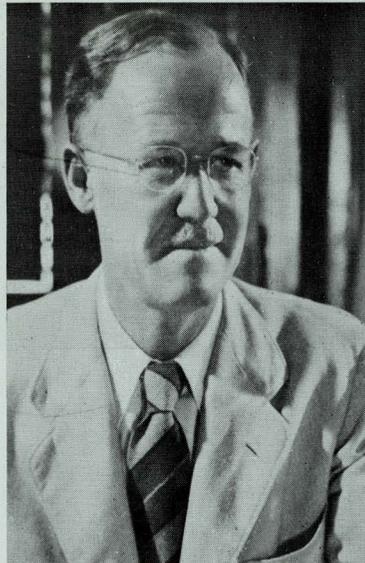


Dr. Stephen B. L. Penrose

THE PRESIDENT



Dr. COSTI K. ZURAYK
Acting President



ARCHIE S. CRAWFORD
Vice President & Treasurer



FUAD SARRUF
Vice President in charge of Relations



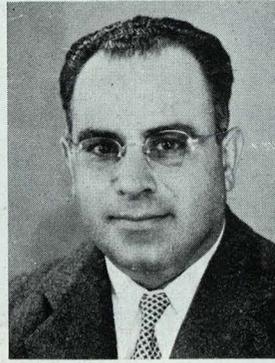
HARRY F. BATY
Dean of Students



HAROLD W. CLOSE
Dean of the Faculty of
Arts & Sciences



FARID A. FULAIHAN
Registrar



AZIZ K. NAHAS
Superintendent of
Buildings & Grounds



DAVID WILDER
Librarian

There is nothing so terrible as
active ignorance — **"Bossuet"**



C. KEN WEIDNER

Dean of the Division of Engineering. Registered Professional Civil Engineer. Technical and Professional Education by tutoring. Entered the Profession in 1925 on general, heavy and railroad structures as Construction forman then as Estimator and Superintendent then as Construction Engineer in Charge. 1931 joined the Engineering Dept. of Boeing Aircraft Company designer and liaison between design and manufacture. 1934 joined the Faculty of Whitman College Instructor in Physics and Superintendent of Buildings and Grounds. 1936 joined the staff of the University of Washington as Ass't Superintendent of Buildings and Grounds including a continuous building program and complete utilities. Ordered to active duty as Lieutenant (Civil Engineer Corps) U.S. Navy in May 1941 served in American Theater and Asiatic Pacific Area, promoted through Lt. Commander and Commander to Captain, decorated twice with The Bronze Star. Released to inactive duty Dec. 1946. Gold medal for Distinguished Service, Society American Military Engineers 1946. Consulting Engineer Saudi Arabia and Professor, University of Oregon until Nov. 1947 when appointed Chief Engineer in charge of design and construction of the University of Chicago Argonne National Neuclear Research Laboratory. Upon completion of this assignment appointed Dean School of Engineering A.U.B, Oct. 1951. Member, American Society of Civil Engineers, Member of the National Society of Professional Engineers. Military Engineer Member, Society of American Military Engineers. Many other professional and scientific societies.



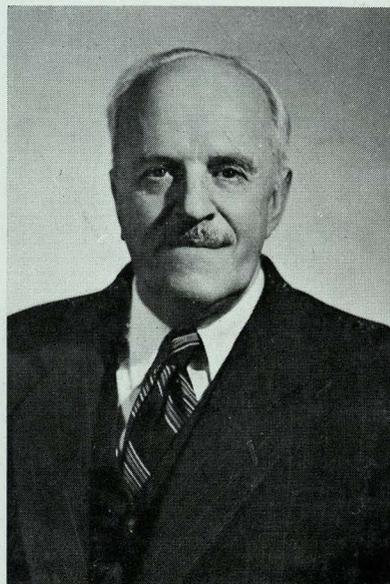
WALTER BAGGALEY



EDWARD S. HOPE



KARL LERSTRUP



IVAN A. RUBINSKY



ROBERT W. SLOANE

Instructing Staff

WALTER BAGGALEY

Professor of Mechanical Engineering. — Registered Professional Engineer. M.E. Stevens Institute of Technology 1920. Tau Beta Pi and Sigma Nu. World war I in chemical warfare service. Employed between college years on construction of 60,000 Kva Steam Power plant at Muscle Shoals, Tennessee. 1920-1921 assistant on hydro-electric power plant construction in Canada. 1922-1926 Mechanical designer and field construction supervisor with the Cleveland Electric Illuminating Co., Ohio, on construction of large steam electric generating plants. 1926 joined the Austin Co., Cleveland, Ohio and was for twenty years Project Engineer supervising design and construction of industrial plants. Two years in Nizhni Novgorod (U.S.S.R.) building Automobile plant; four years designing chemical plants for Carbide and Carbon Chemicals Corp. in West Virginia, Illinois, Texas; five years in U.S.A. building Atomic Energy Laboratories in Oak Ridge, Tennessee, Chicago, Illinois, Arco, Idaho and Denver, Colorado. Member ASME, ASHVE, AICHE; Cleveland Museum of Natural History, the Kirtland Geology Club (president 1947-1949), the Cleveland Natural Science Club, the Earth Science Club of Northern Illinois.

EDWARD S. HOPE

Professor of Civil Engineering. Registered Professional Engineer. B.A. 1923, Morehouse College, B.S. in Civil Engineering 1926, M.I.T., M.S. in Civil Engineering 1927 M.I.T., Ed.D. 1942 Columbia University. Kappa Delta Pi and Alpha Phi Alpha. 1926 Hydroelectric Investigation for the Grenfell Mission, Newfoundland. 1927-1928 Junior Assistant highway engineer, New York State. 1928-1931 Hydraulic Engineer, Empresas Electricas Brasileiras, Rio De Janeiro, Brazil. 1932-1941 Superintendent of Building and Grounds, Howard University. 1944-1946 U.S. Navy, Public Works Officer, Lieutenant, Civil Engineers Corps, Pearl Harbor, T.H. 1946 U.S. Navy, Director of Instruction, Lieutenant Commander, C.E.C., Navy Pacific University. 1947-1951, until joining A.U.B. faculty, Professor of Civil Engineering, Howard University. Wrote technical papers on the «New Power Plant and Distribution System of Howard University», and on «Labor Policies of Colleges and Universities». Member-National Technical Association, American Society for Engineering Education, American Society of Civil Engineers.

KARL LESTRUP

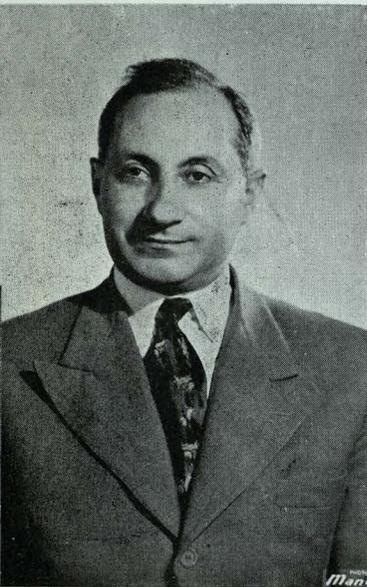
Professor of Electrical Engineering. — Registered Professional Engineer. Sigma Xi. B.A. 1932, Ph.B. 1933 University of Copenhagen., S.M. in Electrical Engineering 1938 Royal Technical College, Copenhagen., D.Sc. in electrical transients 1942, Harvard University. 1934-1935 with power and with «Siemens». 1938 with Laur Knudsen A/S, Copenhagen on design of low-voltage switchgear and the development of protective relays. 1939 left to U. S. on a grant. Did research on traveling waves at Harvard. One year instructor in electrical machinery at Tufts College, Medford, Mass. 1941 assistant electrical engineer with Allis Chalmers Mfg. Co. Boston. 1942 transferred to circuit-breaker research in Milwaukee. 1945 loaned to the radar division as a consultant and thereafter with another in charge of switchgear research and development. 1948 returned to Denmark, Engineer in charge of research with Laur. Knudsen A/S, Copenhagen. Wrote several technical articles. 16 patent applications lodged in his name. Member-Electro technical Society Copenhagen, Danish Society of Professional Engineers, A.I.E.E. former chairman, Basic Science Group, A.I.E.E., Milwaukee.

VAN A. RUBINSKY

Professor of Engineering Sciences — B.A., B.D. 1910 Kharkov Theological Seminary. Aeronautical Engineer 195 , Imperial Technical School of Moscow. Took part in construction of Bleriot Aeroplane and monorotor Helicopter with tai lpropeller which was awarded Silver and Gold Medals respectively at exhibition in Moscow 1912. Did laboratory investigation of the aerofoil profiles for propeller blades and reported results at the All-Russian Aeronautical Conference at St. Petersburg. 1913-1914, did design work at «Dux» aeroplane plant, Moscow. 1915-1918 Building organizer, technical manager and chief engineer of Moscow Aerodrome Workshops. Research Associate, Aerodynamic Laboratory of Imperial Technical School. Consulting Engineer, Lebedenko's Research Laboratory. Initiator and member, Board of Directors of the central Aero-Hydrodynamic Institute Moscow. One year with R. A.F. in Egypt. 1926 joined A.U.B. faculty. 1938-1939 guest professor at M.I.T. Research on Supersonic Wind Tunnels. 1950-1951 Research Associate at Princeton University, doing work on the feasibility of the use of fiber glass in prestressed concrete. Did research on three dimensional projection. Designed a special pump for wind motor, an equation solving machine, a dehydration plant.

ROBERT W. SLOANE

Director of the Experimental and Service Laboratories — Chartered Electrical Engineer. B.Sc. in Natural Philosophy 1932, Glasgow University. Ph.D. 1935 Glasgow University A.M.I.E.E. 1932-1935 towards his Ph.D. did experimental study of ignition of gaseous mixtures by the discharge of electricity between electrodes of low conductivity and experimental study of the discharge between points in hydrogen. 1935-1944 Member of the Scientific staff of the Research Laboratories of The General Electric Company Ltd., Wembley, England. Patented an E type wavemeter for radar wavelengths. 1939-1944 Lecturer on the physics of radio to members of the Scientific staff of G.E.C. 1944-1952 British Council Officer, seconded to A.U.B. as chairman of Physics Department. Published several technical articles on the theory of thermionic tubes and an industrial test apparatus for such tubes. Organized the Beirut Physics Circle.



FADEL G. ANTIPPA



RAYMOND S. GHOSN



NICOLA E. MANASSAH



KHOSROV K. YERAMIAN



DONALD L. LEDBETTER

FADEL G. ANTIPA

Associate Professor of Electrical Engineering. B.A. 1929 A.U.B. M.A. 1933 A.U.B. B.Sc. Hydroelectrical Engineering, 1938, University of California, Berkeley. 1929-1930 taught physics and mathematics at American High School, Tripoli. Since 1930 has been with the A.U.B. Physics Department until he joined in 1952 the A.U.B. Division of Engineering. Did research on industrial electro-chemistry; designed and owned the first plastic molding factory in the Middle East. Installed several pumping and electrical plants. Co-author of a Laboratory Manual in Physics. Consultant in Hydraulics, Electricity, and General Industries. Member, A.I.E.E.

RAYMOND S. GHOSN

Associate Professor Architecture and Structural Engineering. — B.A. (A.U.B.) 1941, B.Sc. in C.E. with distinction, (A.U.B.) 1945, S.M. in C.E. (M.I.T.) 1946, M. Arch. (M.I.T.) 1950, Tau Beta Pi. 1941-1944 Draftsman, Designer, Assistant field Engineer, Architectural, Engineering offices (Lebanon and Egypt). 1946-1947, Structural Engineer-Designer with architectural firm, Boston, U.S.A. 1947-1950 while preparing for degree in architecture, part-time teacher at M.I.T. (Graphics Department), also worked on visual design exhibits under Prof. Gyorgy Kepes (M.I.T.). 1950-1951 until joining A.U.B. faculty, Architectural Designer for Boston firm, cooperated on design of two buildings for Harvard University and Wellesley College. Critic in charge Final Year Architectural Design, Boston Architectural Center. Contributed the Architectural Design of the Agriculture School and the Engineering Vocational Laboratories at A.U.B. Recipient of Husayn Bey Al-Ahdab prize in Engineering (Beirut 1945). Member A.C.I., Junior Member A.S.C.E., Associate M.S.A.A.

NICOLA E. MANASSEH

Associate Professor of Civil Engineering. — B.A. 1927, A.U.B., B.S. in Civil Engineering 1931, University of Michigan. Licensed Surveyor, Government of Palestine. 1927-1932 Surveyor-Engineer with the University of Michigan and the University of Pennsylvania on Archeological Expeditions in Iraq and Palestine. 1933-1942 Civil Engineer with the Iraq Petroleum Company in Palestine, Lebanon, Syria and Iraq. Since 1944 has been teaching at A.U.B. Engineer Consultant to a number of firms such as the Iraq Petroleum Company, Tapline, the Arab Building Company. During the last three years has worked as Structural Engineer on a number of A.U.B. buildings. Participated in the restudy of The Lebanese City Planning and Building Code. Associate Member, A.S.C.E., Member, Lebanese Union of Engineers, Lebanese National Committee of World Engineering Congress.

KHOSROV K. YERAMIAN

Associate Professor of Civil Engineering. — B.A. 1927, A.U.B., B.Sc. in Civil Engineering 1930, Lafayette College. 1927-1928 Taught Mathematics and Physics in Universal College, Aley. 1930-1931 Assistant Engineer on a reinforced concrete arch bridge and on a coaling station in Penna. U.S.A. Since then has been part time teaching at A.U.B., while carrying on his private practice in Architecture, Engineering and Contracting, in Lebanon and Syria. Over 225 completed projects to his credit covering the diversified fields of residential, industrial, educational, religious and public buildings, examples of which are the B.C.W., Gerard Institute in Sidon, School of Nabathieh, Cathedral and Seminaries at Antelias, sanatorium in Azounieh. Worked as Engineer and contractor on bridges, tunnels, buildings, roads with public works of the Lebanese Government. Member. Aley Municipal Council, Executive Committee Alumni Association — Beirut Branch.

DONALD L. LEDBETTER

Assistant Professor of Industrial Engineering. Registered Professional Engineer BS in CE 1946, University of Oklahoma. 1946-1947 with U.S. Navy served in Pacific theatre as Advanced Base Inspection Officer for Bureau of Yards and Docks and Repair and Utilities Officer, and Acting Public Works Officer of Naval stations. 1948 City Engineer's office, Oklahoma City, Oklahoma. 1948-1951 Administrative Assistant to the Chief Engineer for design and construction of Argonne National Laboratory, University of Chicago. Established project record control system. 1951-1953 with U.S. Navy as Officer in charge of Technical Training Schools in Port Hueneme, California. Published short articles on apprentice training. Patent application for «Multiple Pass Asphalt and Aggregate Spreader». Junior Member, A.S.C.E., Member, Association of Civil Engineers, U.S. Navy.



YEGHISHE M. AVEDISSIAN



HAROUTUNE Y. KALAYAN



FOUAD F. KHAZEN



SHAHAN K. SOGHIKIAN



BENJAMIN K. YOTNAKHPARIAN

YEGHISHE M. AVEDISSIAN

Instructor in Engineering. — B.Sc. in Petroleum Engineering 1951, University of Oklahoma. 1940-1944 taught English, Mathematics and Sciences at American School for Boys, Baghdad. 1944-1947 Headmaster of American High School, Baghdad from 1951 until joining faculty in 1952. Worked as laboratory assistant, Assistant driller, Assistant Cement Engineer and Drilling Statistician with Basrah Petroleum Co. Iraq. Has several publications including «Holiday for Tears», a novel published in New York, 1950. Member — Pi Epsilon Tau, Honorary Petroleum Engineers' Society.

HAROUTUNE Y. KALAYAN

Instructor in Engineering. Engineer, Antiquity Department, Republic of Lebanon. B.A. 1931, A.U.B. B.Sc. in Civil Engineering 1946, A.U.B. With Antiquity Department since 1932, except 1938-1942 when he taught at Melconian Educational Institute, Nicosia, Cyprus. 1935-1937 consolidation works on «Crac des Chevaliers». 1937-1938 excavations at Djibeil. 1937, delegated to survey and identify on the map some old Roman villages west of Palmyra. Did restoration work on Baalbeck ruins, sea castle of Sidon and others. Started part time teaching at A.U.B. in 1942.

FOUAD FADIL KHAZEN

Instructor in Civil Engineering. — B.A. 1932, A.M.I.C.E. London 1945. (Chartered Civil Engineer). 1933-1936 Surveyor, Draftsman and Designer with Public Works Department, Palestine. 1936-1948 Foreman of Works, Designer, and Assistant Engineer with the Public Works Department, Palestine. 1948-1953, with Syrian Ministry of Public Works. Inspector Engineer, Damascus, then District Engineer, Hama, and later Chief Executive Engineer, Aleppo. Treasurer, Society of Engineers, Jaffa, Palestine. Member of Society of Engineers, Damascus, Syria. Associate Member, Institute of Civil Engineers, London.

SHAHAN K. SOGHIKIAN

Instructor in Engineering. — B.A. 1948 A.U.B., M.Sc. 1951 Columbia University. 1950 worked with Hirachthal and King, Consulting Engineers, New York, on reinforced concrete structures, apartment buildings, sewage treatment and bridge approaches. Designed five overpass Bridges (composite section design) on New York thruway. 1951-52, worked with Custom Engineering, New York, and was assistant head of the Reinforced Concrete Section. Designed foundations and Substructures of electro-metallurgical plants at Marietta and Ashtabula, Ohio. 1952 Consultant, Ain Zhalta irrigation project, Lebanon. 1953 Consultant, Point IV, Litani River Project, Junior Member A.S.C.E.

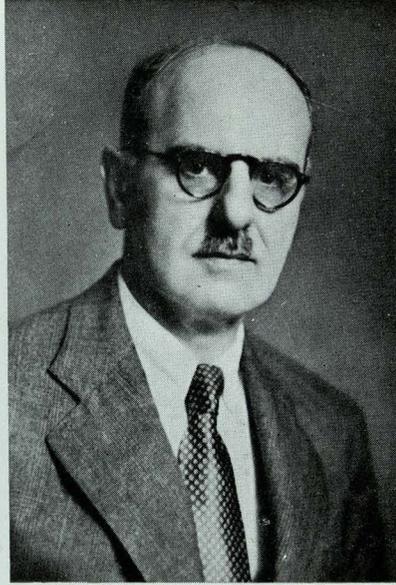
BENJAMIN K. YOTNAKHPARIAN

Instructor in Electrical Engineering. — D.L.C. (Hons) 1950 (Diploma of Loughborough College). B.Sc. in Engineering 1951, London University. 1951-1952 worked in the Lancashire Dynamo and Crypto (Mfg.) Ltd. at Manchester, England. Representative of the College Apprentices at the Lancashire Dynamo and Crypto.



FUAD A. ABDUL-MALIK

Lecturer in Civil Engineering — B.A., A.U.B., 1917, B.Sc. in Civil Engineering, A.U.B., 1921. 1917-1923, instructor, contractor and Physical Education Director. In 1923, joined the Beirut Municipality, as Engineer and in 1945 was appointed as Chief Municipal Engineer. Has lectured in Engineering at A.U.B. from 1928 until he resigned in February 1953 to start a private practice in Kuwait.



IBRAHIM A. KAIRALLAH

Lecturer in Engineering Law. Councillor at Law. Municipal Councillor, City of Beirut. M.A. 1910, A.U.B. Licence es Droit 1916, Dijon University, France. L.L.B. 1927, Columbia University. Moslem Law at Al-Azhar 1915 and 1916. Taught at A.U.B. 1904-1909. Admitted to the Bar in New York and Beirut, worked at Law Councillor since. Started lecturing at A.U.B. 1944. Awarded Order of Merit, by Lebanese Government.



GARNETT L. WEIDNER

Lecturer in Fine Arts — Bachelor Degree in Fine Arts from the University of Washington. Taught and supervised Art classes. Before joining the Engineering Faculty at A.U.B., conducted classes in Adult Art Education for American Association of University Women. Research in Arts and Crafts of American Indians. Travel in the neighbouring Arab countries for study of the local arts.

“ We will not be content with the mere teaching of technical and engineering subjects. We shall be satisfied only when we develop men who will become ENGINEERS in the fullest sense.”

THE FACULTY

a charge to the class of 1953

C. Ken Weidner, *dean*

« It is by noble deeds that a man shall prosper in any land.»

According to tradition, today I am expected to give you a lot of advice. Every graduating class is supposed to be given advice by some sage.

I am no sage — so I am afraid I cannot give you advice.

However, I would like to discuss with you a problem which you are going to inherit.

This problem is the one of LEADERSHIP ! You have all heard a lot about leadership and you have all heard a lot about a free way of life. You also have all heard a lot about the various dangers that threaten such a way of life and the great need we have for leadership.

Contrary to popular belief — leadership is a community thing. When any community is made up of those who are honest, sincere and productive, and who willingly accept and discharge their public responsibilities, then that community has leadership. On the other hand — when a community is made up of those who — although they do all else — leave public responsibilities to others — the community does not have leadership even though it may have a leader. The problem you will inherit is that of producing within your generation the true concept of leadership as a community force.

If you are to develop and use this leadership effectively you must be prepared for it. To be prepared you must progressively develop yourselves to the fullest extent of your capacities.

This development may be called education as long as you do not limit it to formal schooling. That is only a part of your required education. Education is a journey not a destination. It begins at birth and continues until you die — mentally.

To educate yourselves intelligently you must understand the characteristics and possibilities of the journey which you are making. Information and techniques can be presented by a teacher and absorbed by a student. But they do not become knowledge until the student can use them in new combinations without being directed. The development of judgment through the use of acquired knowledge produces wisdom. But wisdom cannot be taught or learned. It is the product of sound experience.

The secret of success in this whole business of individual development is in having a sound philosophy of life and the attitude of mind which it produces.

To acquire knowledge and develop judgment and wisdom you must have some purpose in life.

If this purpose is confined to the satisfaction of your own ambitions you will not get much out of anything you learn and you will find great difficulty in finding happiness and peace of mind.

If on the other hand your purpose springs from the higher moral values of life and is aimed — as it should be — at helping improve man's lot on this earth, then you will get an unlimited fund of information — which you can convert into knowledge — from everything you see, hear and do. And, you will always find happiness and peace of mind in the development of true wisdom.

With the proper attitude of mind you can.

- 1) Develop a consuming but objective curiosity about all things ;
- 2) Develop the ability to perceive and understand what you see ;
- 3) Develop emotional control ;
- 4) Develop what is known as an open mind — that is the ability to suppress prejudice — which is usually called opinion — in order to explore the facts and find the truth ;
- 5) Develop the ability to avoid hypocrisy ;
- 6) Learn to understand that all rights and privileges spring from the fulfillment of basic obligations to humanity ;
- 7) Learn to understand that in all human relations there is never an open and shut case — nothing is ever black or white but always some shade of grey. And that while you can write statistics about people you can never reduce a person to a statistic.

By developing these abilities — and understanding these basic truths you will be training yourselves for real leadership.

Look to the future — its making is in your hands. You have a greater destiny ahead than has been seen in the past.

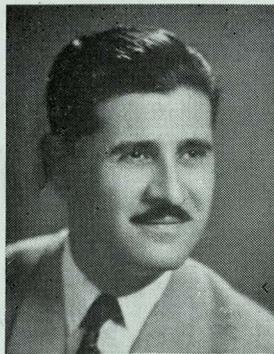
« God be with you and bring success for your worthy efforts.»

اخذ الله بيدكم وكنل جهودكم بالنجاح

THE CLASSES

fourth year engineering

candidates to the B.S.C.E. degree



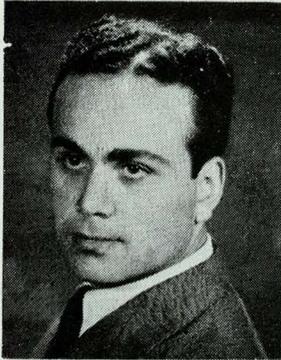
riad ali ahmad, B.A. (special)
Beirut, Lebanon



farid anawis, B.A. (special)
Kamishly, Syria



edward balabanian, B.A.
Aleppo, Syria
Captain, Engg. Football team



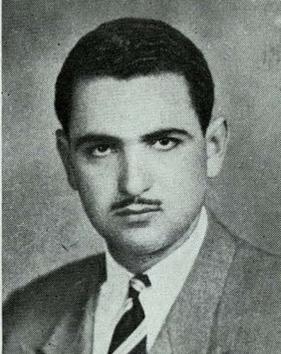
berj k. bedrossian, B.A.
Beirut, Lebanon
Cabinet Member, E.S.S. '52-'53
Publication Manager, Engg. Corp.



christopher s. donabedian, B.A.
Ramallah, Palestine
Promotion Manager, Engg. Corp.
Vice-President, A.U.B. Art Club



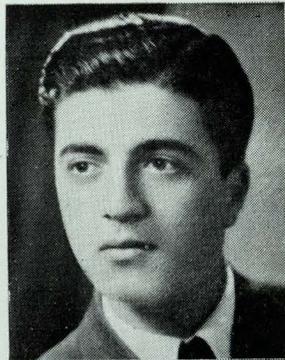
paschal s. habash, B.A.
Jaffa, Palestine



souheil k. habib, B.A.
Beirut, Lebanon



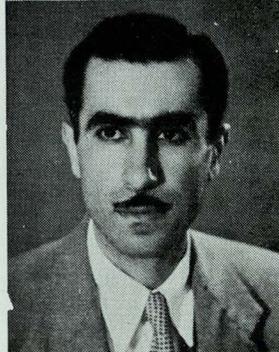
farid i. kandalft, B.A.
Damascus, Syria
President, Engg. Corp.



abdul-kadir a. kasti, B.A.
Beirut, Lebanon



ramiz n. khabbaz, B.A.
Beirut, Lebanon
Service Manager, Engg. Corp.



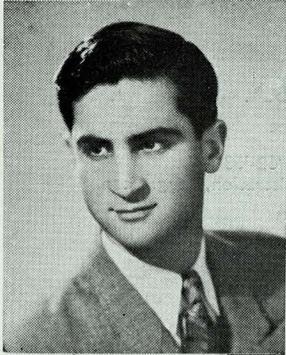
kamal b. khalaf, B.A. (special)
Aley, Lebanon



kamal i. khuri, B.A.
Aley, Lebanon
Group Chief, L.B.S.A.



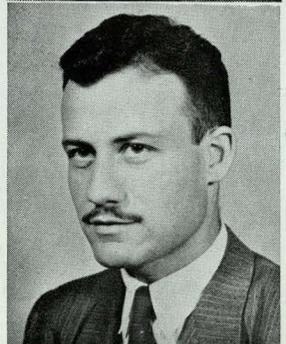
sami k. khoury, B.A.
jerusalem, Palestine
Security Manager, Engg. Corp.



shafic s. kutran, B.A.
Haifa, Palestine
Research Manager, Engg. Corp.



sadek k. kuwatly, B.A.
Damascus, Syria
A. U. B. Photography Club
A. U. B. Folk Dancing Club



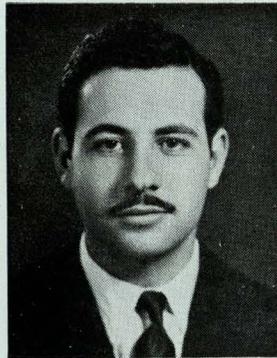
mohamad a. malas, B.A.
Damascus, Syria
Production Manager, Engg. Corp.



issam a minkarah, B.A.
Tripoli, Lebanon
Vice-President, E.S.S. '52-'53
Development Manager, Engg. Corp.



albert a. ouzounian, B.A.
Beirut, Lebanon
First President, Engg. Corp.
Member, Student Council '51-'52



bahij k. saba, B.A.
Jerusalem, Palestine
President, E.S.S. '52-'53
Personnel Administration, Engg. Corp.



albert h. shabhar, B. A.
Tyre, Lebanon
Engg. Volley Ball team
Maintenance Manager, Engg. Corp.



daniel r. shidrawi, B.A.
Hadeth el-Jobbee, Lebanon
Disbursement Manager, Engg. Corp.

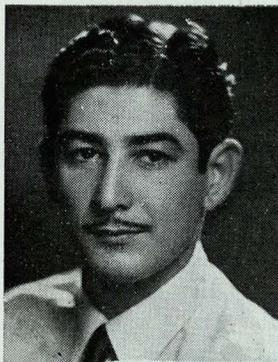


pierre a. sioufi, B.A.
Aleppo, Syria
Audits Manager, Engg. Corp.



garbis a. tabourian, B.A.
Beirut, Lebanon
Chairman, Bowling Club
Secretary — E.S.S., Engg. Corp.

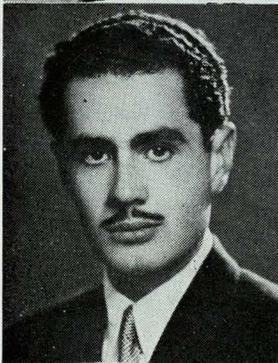
third year engineering



hagop ateshian

Beirut Lebanon

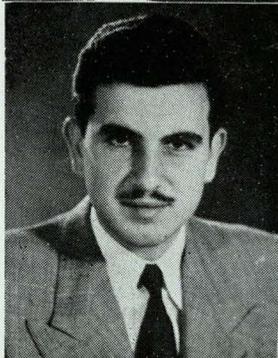
Member Engineering Society Cabinet
Captain - Volley-ball team



hanna ayyoub

Douma, Lebanon

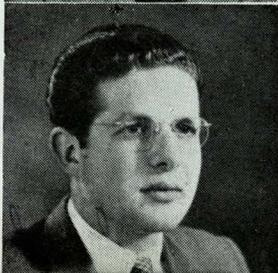
Engineering Volley Ball team



salim azzam

Haifa Palestine

Engineering Base Ball team



issa farah

Gazza, Palestine

Civic Welfare League
Engineering Foot Ball team



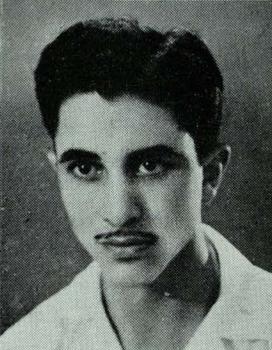
mohammed fayyad
Gazza, Palestine



sarkis garabedian
Ras al Ain, Syria
Engineering Show (S. M)
Engineering Base Ball team



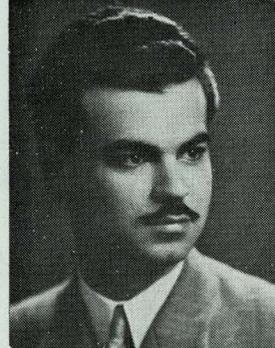
iskandar joseph
Nazareth, Palestine
Member Student Council '51'52



munif jabbour
Yabroud, Syria
Director Night School, A.U.B.
Member Student House Com-
mittee



jawad jawad
Safita, Syria



munir jiha
Bishmizzine, Lebanon



anis kaid bey
Ain Anoub, Lebanon



barkev khojajian
Aleppo, Syria



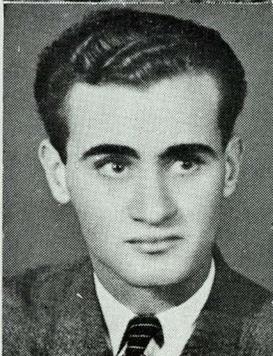
raymond kurkjian
Tripoli, Lebanon
Co-Director E.S.S. Show '53
Chairman Photo Club



zain mayassi
Haifa, Palestine
Treasurer Engineering
Society '52 '53
Engineering Base Ball team



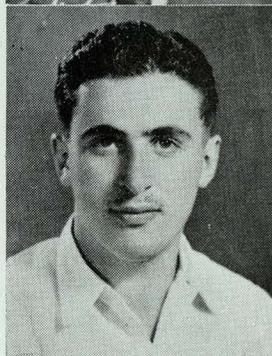
raphael missirian (special)
Beirut, Lebanon



hani nabulsi
Jaffa, Palestine



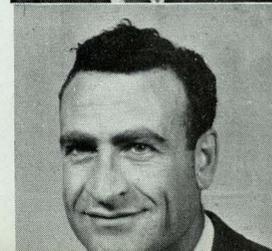
nadeem nasr
Hamat, Lebanon
Engineering Base Ball team



munir nassar
Ain Ksour, Lebanon
Captain Engineering Base Ball
team



nabil nassar
Cairo, Egypt
Co-Director E.S.S. Show
Engineering Base Ball team



ibrahim hajj obeid (special)
Amioun, Lebanon



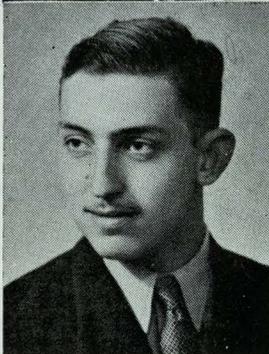
anwar rizk
Broumanna, Lebanon
Engineering Foot Ball team
A.U.B. Captain for Throws



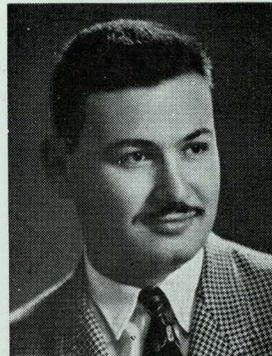
emile rizk
Amioun, Lebanon



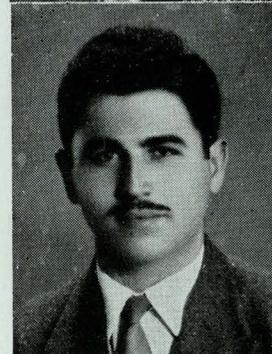
khalid shehadeh
Tripoli, Lebanon



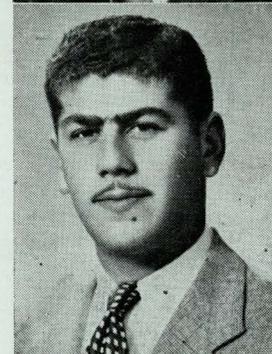
sarkis takhtajian
Aleppo, Syria
Engineering Foot Ball team



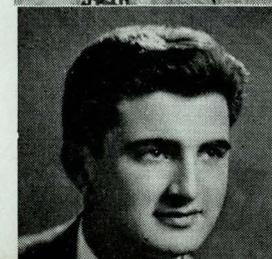
karnig yacoubian
Damascus, Syria



h. yenikomishian
Beirut, Lebanon



varoujan zaven
Beirut, Lebanon
Engineering Basket Ball team



hrant zawzawadjian
Beirut, Lebanon
Engineering Volley Ball team

second year engineering



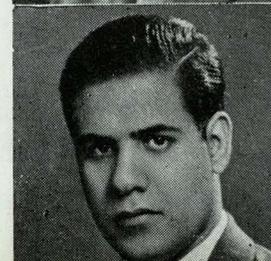
Michel Abu Jawdeh
Broumanna, Lebanon



Abdul Hussain Ali Al Hilawi
Baghdad, Iraq



Ali Alamuddin
Amman, Jordan
Engineering Foot Ball team



Majid Al Jishi
Bahrain



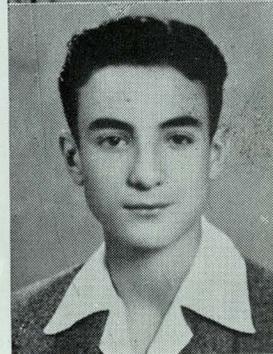
varoujan azadian
Beirut, Lebanon
 International Basket Ball player
 Club sportif Basket Ball team



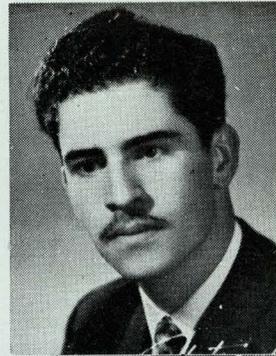
victor bankoul
Adis Ababa, Ethiopia



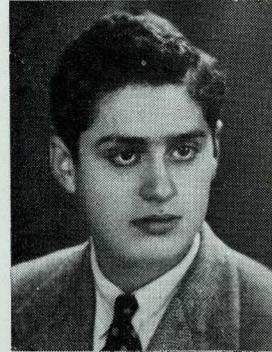
roger chehiré
Paris, France



omar dabbagh
Jaffa, Palestine



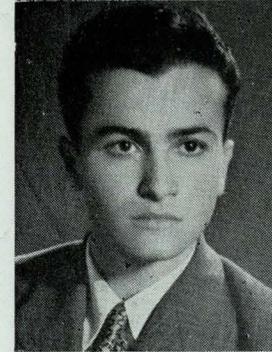
hisham dajani
Jerusalem, Palestine
 Captain, Engineering Basket
 Ball
 Engineering Foot Ball team



muhammad dajjani
Jaffa, Palestine



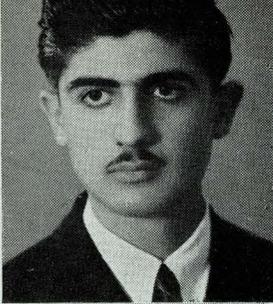
shawki freiha
Broumana, Lebanon



avedis guiragossian
Beirut, Lebanon



munir halaby
Chouer, Lebanon



wahib hamza
Abey, Lebanon



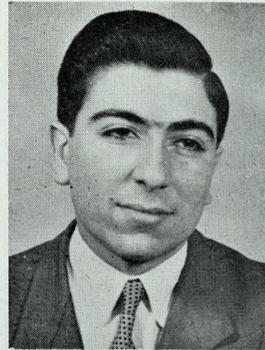
ahmed husayni (special)
Jerusalem, Palestine



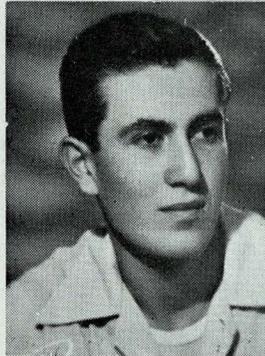
antoine jemayel
Ain Kharoubé, Lebanon



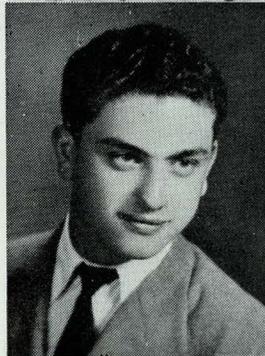
yousef joseph
Shouaifat, Lebanon



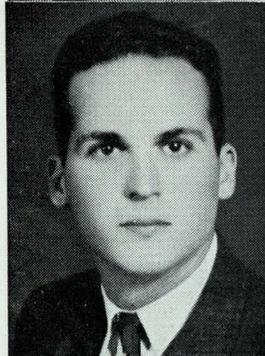
laurent khayat
Aleppo, Syria



nabih majdalani
Haifa, Palestine
Engineering Foot Ball team



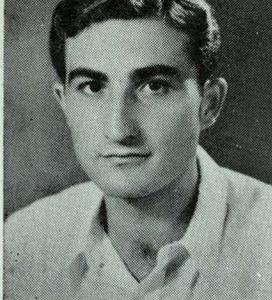
mukhtar malas
Damascus, Syria
Engineering Basket Ball team



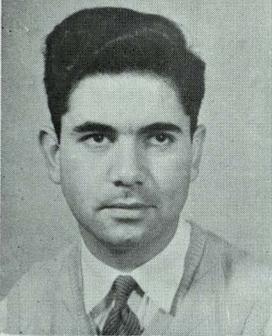
riad maliki
Damascus, Syria
Engineering Basket Ball team
Al Fityan Basket Ball team



haroutoune markarian
Aleppo Syria
Engineering Foot Ball team
Varsity Foot Ball team



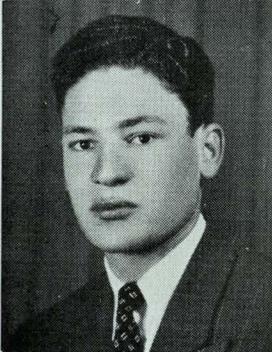
gilbert mashalany
Beirut, Lebanon



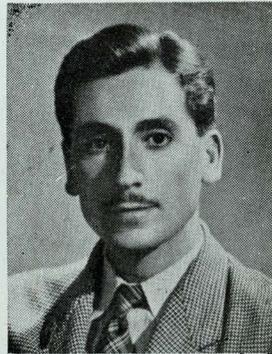
muhammad muyassar
Aleppo, Syria



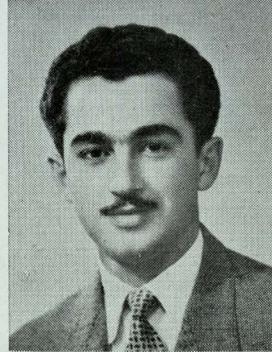
vasken najarian
Beirut, Lebanon
Engineering Foot Ball team



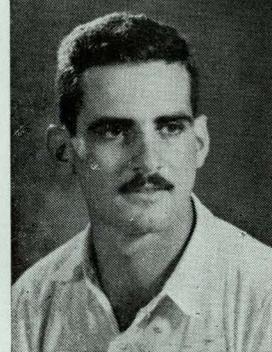
khalil nubani
Jaffa Palestine



hratch papazian
Baghdad, Iraq
A.U.B. Bridge Club
A.U.B. Archery Club



vahan piranian
Beirut, Lebanon
Bowling Champion — Men's
Doubles



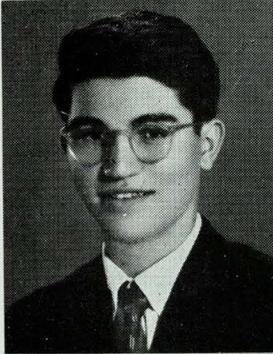
rafik samaha
Al Jouar Lebanon



william samman
Mexico City, Mexico



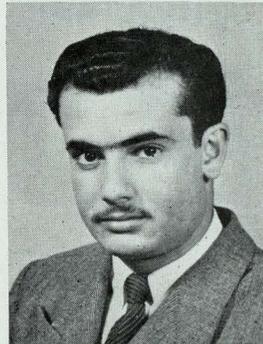
robert sarkis
Amman, Jordan



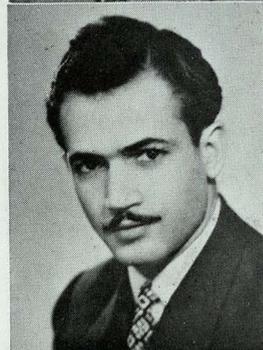
albert sarrafian
Beirut, Lebanon
A.U.B. Photography Club



nicolas shamma
Ba'albek Lebanon
Head Jessup Hall Comitee
S.C., Member '50 '51



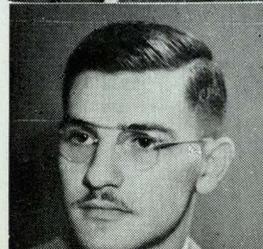
said shammass
Homs, Syria



ali shubbar (special)
Kadimieh, Iraq



wadi' tawk (special)
Homs, Syria

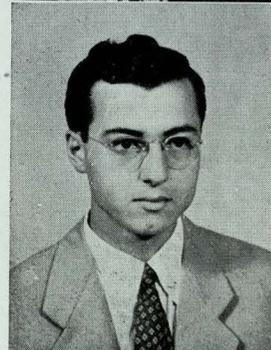


vahé yacoubian
Beirut, Lebanon
A.U.B. Archery Club

first year engineering



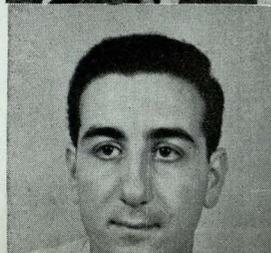
issam abdul baki
Beirut, Lebanon



sa'd abu khadra
Jaffa, Palestine
Lodge



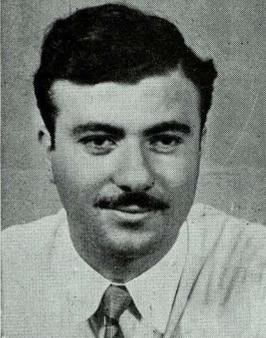
ajaj abul husn
Betikhnein, Lebanon



fuad abu nasr
Beirut, Lebanon
Co-manager Engg. Show



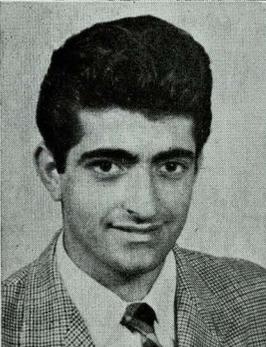
elias abu saba
Sidon, Lebanon



wafik adadah
Beirut, Lebanon



talal afifi
Jaffa, Palestine
Engineering Base Ball team



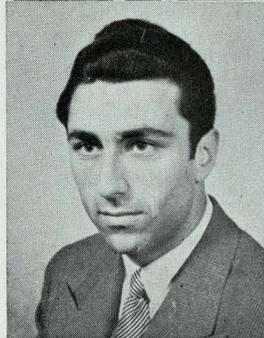
khalid al musfi
Ba'kline, Lebanon
A.U.B. Dramatic Club
Engineering Base Ball team



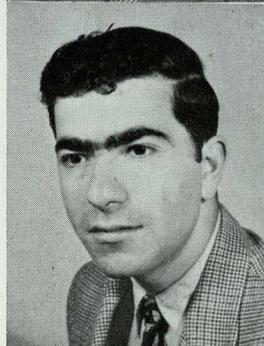
george ayoub
Haifa, Palestine
Engineering Basket Ball team



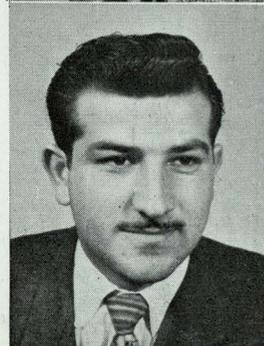
najm azar
Kab Elias, Lebanon



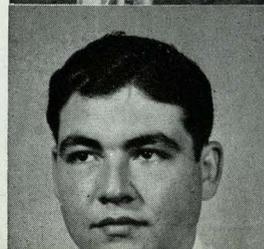
raymond badran
Djoubeil, Lebanon
Engineering Volley Ball team
Varsity Volley Ball team



vahé bakjejian
Beirut, Lebanon
Engineering Volley Ball team



yenouk balikian
Beirut, Lebanon
Engineering Foot Ball Team



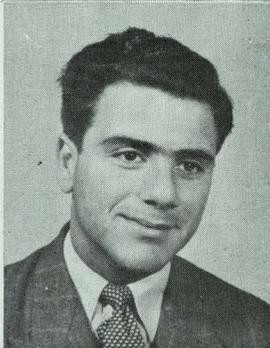
usama barudi
Hama, Syria



ara bilezikjian
Beirut, Lebanon



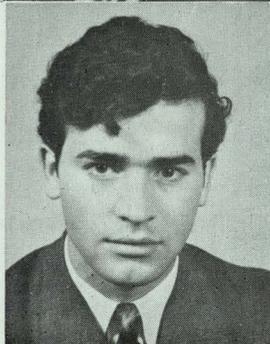
françois bouiri
ounieh Lebanon



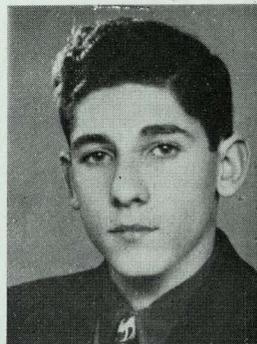
munir boulos
Haifa, Palestine
Engineering Foot Ball Team



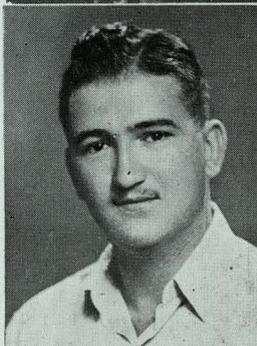
nadim boulos
Beirut, Lebanon



arthur daou
Djoubail, Lebanon



farid doumani
Damascus, Syria
Engineering Basket Ball team
Lodge



farouk fakhouri
Beirut, Lebanon



emile fares
Beirut, Lebanon



farouk ghuraib
Amman, Jordan



charles haddad
Jerusalem Palestine



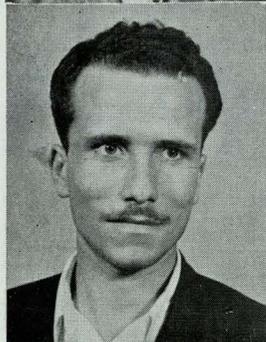
pierre harun
Aleppo, Syria



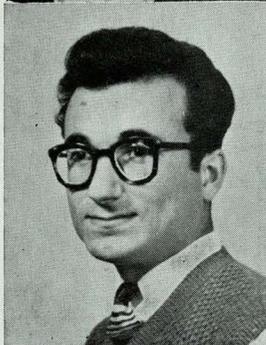
salahudin hashash
Beirut, Lebanon
Engineering Basket Ball team
Urwa Comittee



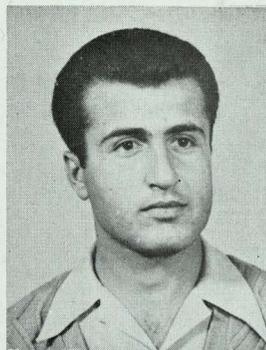
nazim hashwi
Homs, Syria



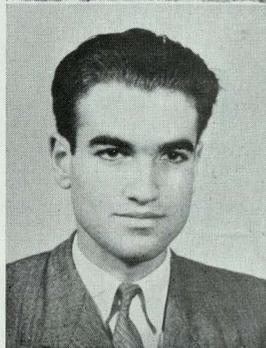
ibrahim ibrahim
Katermeya, Lebanon



habib izzudin
Tripoli, Lebanon



nabih jabbur
Hamat, Lebanon



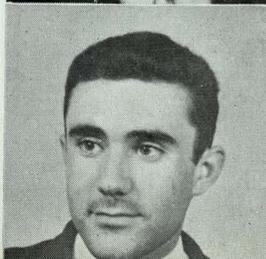
emile jiha
Bishmizzine, Lebanon



kays juma
Baghdad, Iraq
A.U.B. Photography Club



tarif jundi
Damascus, Syria



jurj jurayj
Akkar Lebanon



tarek kabbarah
Beirut, Lebanon



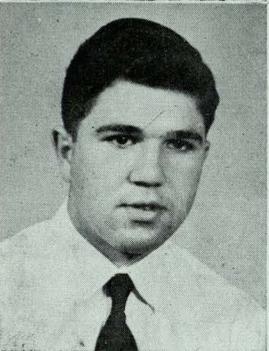
elias karam
Amioun, Lebanon



henry karam
Broumanna, Lebanon
A.U.B. Track & Field



roy karaoglan
Beirut, Lebanon
Engineering Basket Ball team
A.U.B. Tennis Champion



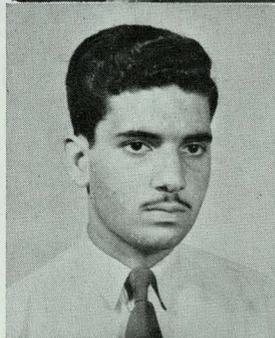
khaled kassab hassan
Damascus, Syria



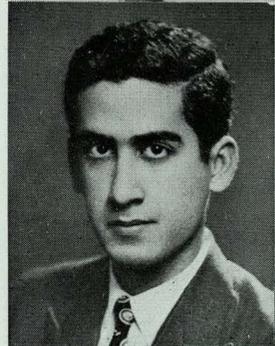
raymond kettaneh
Beirut, Lebanon



lubbus khairallah
Safita, Syria



nabil khani
Damascus, Syria



yusef khunji (special)
Bahrein



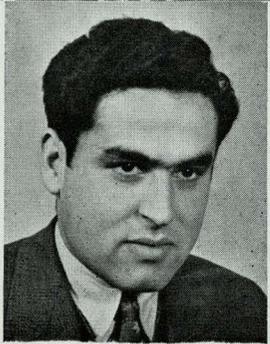
guy kilzi
Beirut, Lebanon



faysal kublawi
Akre, Palestine



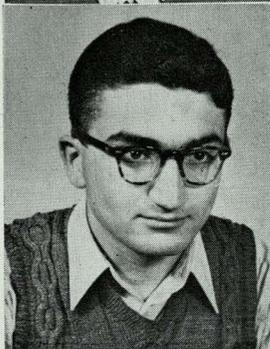
sami kurban
Dhour Chouer, Lebanon
Engineering Volley Ball Team
Varsity Volley Ball team



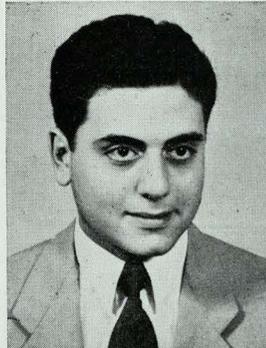
yusuf matta
Burj Barajné, Lebanon



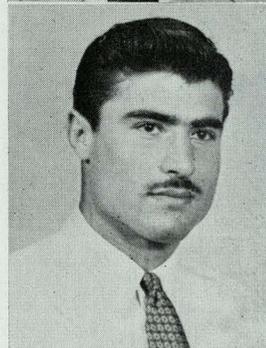
farouk midani
Damascus, Syria
International Basket Ball Player
Club Sportif Basket Ball



hrayr mouradian
Aleppo, Syria



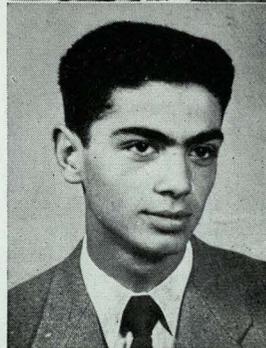
edward na'man
Haifa, Palestine



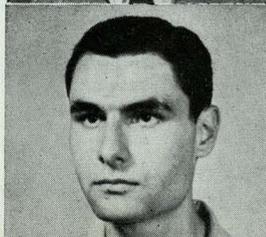
george nasr
Hamat, Lebanon



fuad nuwayser
Haifa Palestine



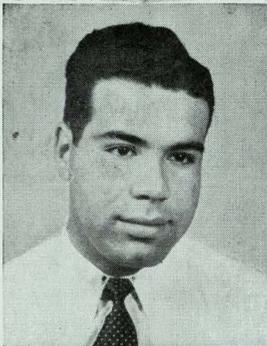
ibrahim resek
Haifa, Palestine
A.U.B. Dramatic Club



farouk sati
Damascus, Syria



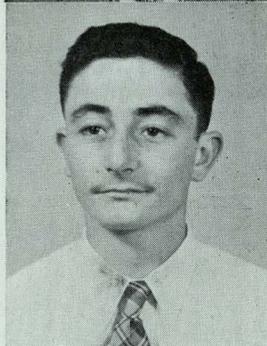
marcel sawaya
Damascus, Syria
A.U.B. Dramatic Club
Intellectual Chairman, Lodge



raja shahfeh
Damascus, Syria



mikhail shahin
Al Koura, Lebanon



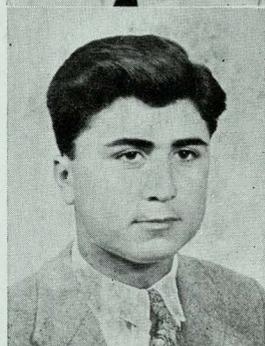
victor shiber
Jerusalem, Palestine
Engineering Foot Ball team
A.U.B. Diving Champion
'52 '53



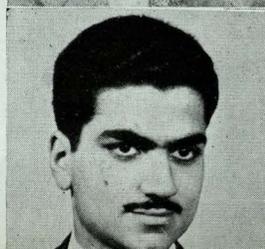
sahag toutjian
Beirut Lebanon



charlie zacharia
Jerusalem, Palestine

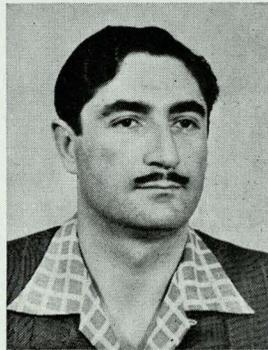


george zakhim
Al Koura, Lebanon



johan zaydan
Jdaidet el Metn, Lebanon

t.c.a. fellows



freydoun ghaemmaghani
Tehran, Iran

High Tech. Coll. of Iran.
Tehran University. Iran
B. S. C. E.



yousef Nosrat
Tehran, Iran

Inst. of Tech. Tehran Iran.
B.S.M.E

STUDENTS ORGANIZATIONS AND ASSOCIATIONS

ENGINEERING HONORS

The Faculty of Engineering has established an Honors Award to be conferred on Final Year Engineering students «in recognition of outstanding achievement and as an encouragement to sustained effort towards high scholarship and character development. In this instance, scholarship is defined as academic accomplishment and character as the embodiment of those moral qualities which are true attributes of the Professional Engineer».

The selection of candidates for this honor is made by the Faculty of Engineering without solicitation on the part of the students. The selection is based entirely upon the collective Faculty observations of the curricular, extra-curricular, and community attitudes and activities of the candidates.

This distinction is conferred upon regular students at the beginning of the last term of their Final Year and is recognized by the award of an engraved certificate and a distinctive emblem for personal wear.

The awarding of the emblem, prior to Commencement, is probationary. The certificate awarded at Commencement is confirmation of the successful termination of probation. The emblem then becomes the unqualified personal property of the recipient.

«Engineering Honors» were awarded for the first time last year. Mr. Muhammad Hassan Saadi from Acre, Palestine, who graduated in June 1952 was the first Engineering student to receive the Award.

This year Mr. Farid Kandalaft, Fourth Year Engineering, will receive the award at graduation time.

THE
ENGINEERING STUDENT SOCIETY
AND ITS ACTIVITIES



members of the cabinet

president : **bahij saba**
vice-president : **issam minkarah**
secretary : **garbis tabourian**
treasurer : **zein mayyasi**
assoc. secretary : **berj bedrossian**
members : **hagop ateshian**
hratch papazian

the cabinet

The regular meetings of the Engineering Student Society cabinet have become so notorious that many an Engineering student looks forward to a first hand report of what goes on (in these weekly «routines»).

It is Tuesday afternoon. The College tower clock announces the time in its traditional indefinite way. It is some time in the neighborhood of 5:30 p.m. To Zein Mayassi, our devoted treasurer, who is usually deep rooted in some cinema's seat, the chimes of the College clock could have been Gregory Peck ringing the door bell of Ava Gardner — on the screen. To Garbis Tabourian the one and only Secretary of every existing society, better known as «Le Garbissier», the chimes are a mere reminder that his notorious cousin «Andre» is apt to be phoning him at any instant. To Vice-President Issam Minkara the chimes remind him that his pal — Tash-Tash — will soon be waiting for him at the Gaumont-Palace (having seen all the other films of the week).

The Associate-Secretary Berj Bedrossian, who also is the «Press Attache» of the Society and the School at large, is usually dreaming of «attaching» a motor car unit to his department. To him, the musical chimes of the College clock are disturbing, but not violent enough to interrupt his dreaming. The two members of the cabinet who respond to the chimes most properly are Hagop Ateshian and Hratch Papazian, the serious «funny faces» of the 'ensemble'.

To President Bahij Saba, the chimes give him the long awaited opportunity to promote further his vocal talents before an informal audience. Last, but not least, our long «suffering» advisor, no other than Professor Manasseh attends some of the meetings at the request of the Cabinet. The moment he walks into the room all hopes of making the movies by six o'clock are unanimously abandoned.

Out of all this fun and pleasure the Society does its best to keep up its tradition of animating the daily routine of engineering students. The following survey is an attempt to give a short report of the things achieved by the Society and its cabinet throughout the year.

society's activities

reception

After 28 years at the A.U.B., Professor Abd-el-Malik decided to terminate his teaching career. A farewell party was held by the Engineering Society in his honor. The Engineering faculty and students, together with his friends among the A.U.B. faculty, gathered in the common room to bid him farewell before his departure to Kuwait.

The President of the Society welcomed the guests and bade the departing professor farewell on behalf of the Engineering School. Professor Abd-el-Malik answered by expressing his gratitude to the Engineering School, and closed by saying, «though 58 years old, like Johnny Walker I'm still going strong».

While refreshments were served, Professor Shahine, a class-mate of Abd-el-Malik told us about a few of the mischievous things they did in their school days, which sent every body home in a jolly mood.

lecture series



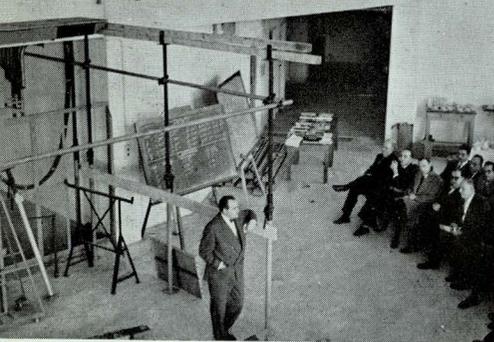
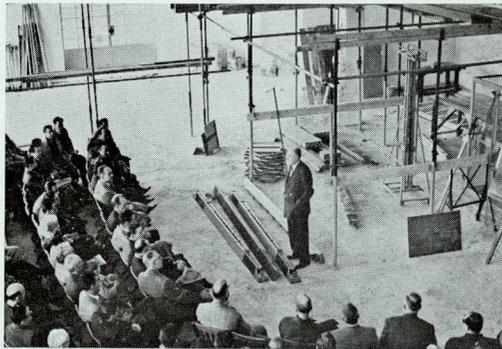
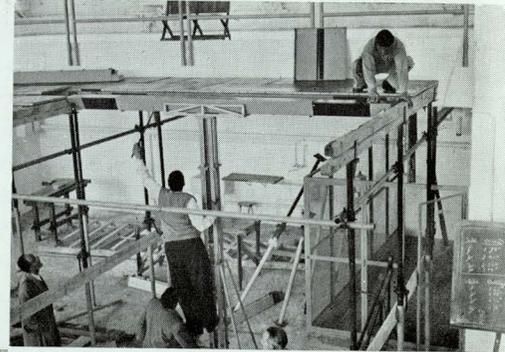
Dr. V. O. Knudsen, renowned physicist, stopped for a few days in Beirut on his way to India last December — thanks to Beirut's International Airport. The A.U.B. seized this valuable opportunity and asked the world-famed scientist to lecture at West Hall.

On December 1st, Dr. Knudsen lectured, in West Hall's Societies Room, to an audience made up mostly of engineering students. The lecture was sponsored by the Physics Department, and Dr. Knudsen was introduced by the head of that Department, Dr. Salwa Nassar.

The lecture was on acoustics and the application of acoustical design in various types of auditoriums, theaters and class rooms.

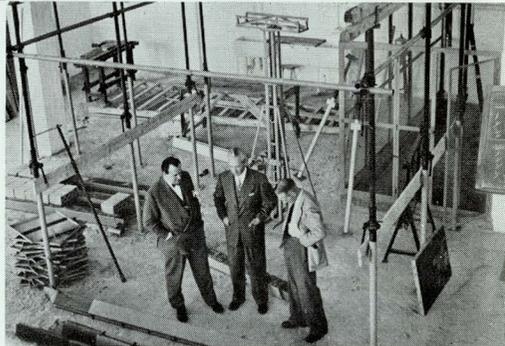
During the question period of the lecture, Dr. Knudsen was asked what should be done with West Hall to ameliorate its bad acoustics. Dr. Knudsen's answer was a classic.. "Seat the audience under the drapes of the stage and give the performers the orchestra seats."

Sunday, 18 January 1953, in the Engineering Laboratories, ACROW Ltd., of London presented to the Engineering School approximately £ 1000 worth of equipment. Present at this ceremony

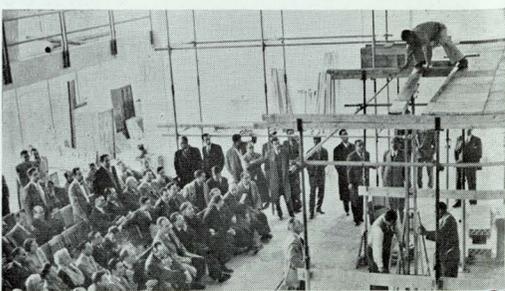
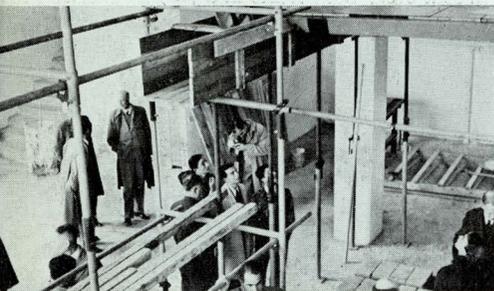


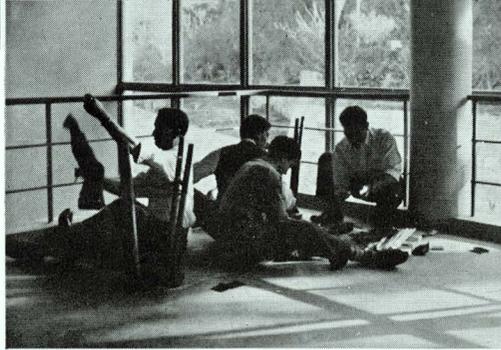
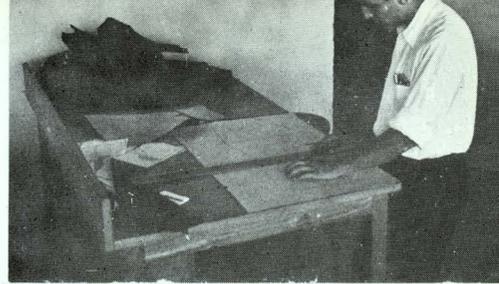
were members of the Engineers Union, faculty and staff members, representatives of the press, members of the Beirut Municipality, Lebanese Ministry of Public Works, Syrian Director General of Public Works, and Syrian faculty members — together with other interested engineers.

This was the first such ceremony to take place in the as yet undedicated Engineering Building. Acting A.U.B. President Constantine Zurayk opened the proceedings and Mr. Harry C. Stebbins, General Manager of the ACROW Export Division made the presentation to Dean C. Ken Weidner. Mr. Stebbins said that he had known and dealt with Dean Weidner before the Dean came to A.U.B. and that it was due to this association that the present gift materialized.



An on-the-spot demonstration of the practical use of the equipment followed. A model of metal forms for concrete slabs had been set up with props, shores and adjustable steel floor centers carrying ferro forms. The whole operation was timed to demonstrate the over all efficiency of the system. This proved to be very interesting inviting many questions and much discussion.





dances

The Engineering Student Society scored a hit with its Target Ball which was held in West Hall's Common Room on 20 December. Bahij Saba, Society President, predicted the Ball's exceptional success when he told an Outlook reporter, «I anticipate great success because the amount of work and the cooperation that's being put into it is incredible». Almost all engineering students were organized into teams, and each team was given a specific job. The master brain behind all these operations was Mr. Shahan Soghikian who saw to it that the process was efficient and led to quality products.

Organization, team-work, and ingenious planning led to the completion of «Operation Target Ball» in a very short time. Above all, the engineering students loved doing this sort of work because it served to exhibit to the public their professional talents.

The orchestra was placed in the south-west corner of the Common Room. Behind the orchestra was a black velvet background with beautifully cut gold letters that read «ESS Xmas Ball». A modern transit and level were exhibited on a specially decorated stand. This served as the engineers' signature. All the way around the room, were placed blue, green and red paper panels with yellow designs on them — mostly in silhouette forms. These designs depicted engineering students' courses in a «Bob Hope» manner.

Another of the outstanding highlights of the Ball was the «special» orchestra that was practically pulled out of thin air. Many remarked that it was the best they had ever heard play at West Hall. As the dancers jammed the dance floor, the surveying instruments' stand had to be removed to provide more room.

The lottery was conducted with much laughter and good-natured ribbing; prizes were of exceptional value. As one «top brass» put it, «I've never seen anything like it here. before». It surely was



One of the ESS's most popular trips this year was the trip to the Crak des Chevaliers in Syria. This trip started early in the morning of Saturday, 22 November, when some 120 students gathered at the Medical gate. If you know what it means to wake up as early as 5.00 o'clock in the morning on a winter holiday, you have a clear picture of the expressions the students had on their faces. Even so, a few could notice something new in this whole affair. Circles of about thirty cms. in diameter painted in red and white were stuck on the wind shields of the busses. These were the TARGETS, the new emblem for the Engineering School seen for the first time by the students.

By 7.00 o'clock we were outside Beirut with everybody snug in his warm clothes and sheltered from the chilly morning sea breeze in a fast moving bus. It took the first two songs to wake up the few who still slept. Soon the whole bus was singing Arabic, then English and then even Armenian songs.

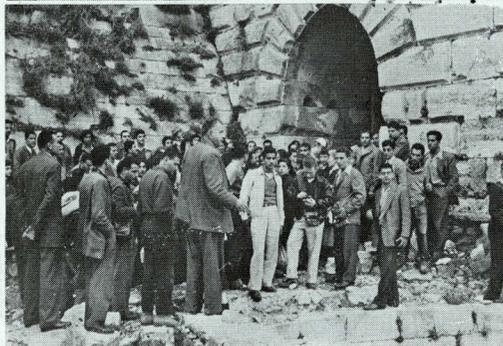
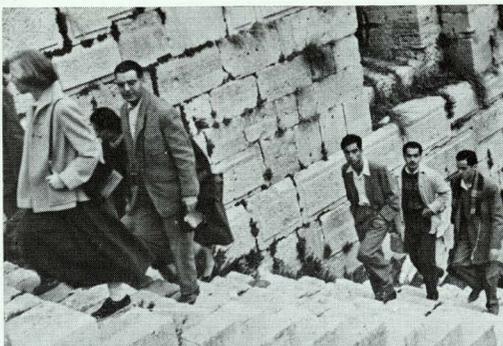
At Tripoli one of the students suggested getting a basket full of oranges from his gardens. Was he discouraged? No!

The two or more hours spent at the borders clearing students' passports that were not in order — was used to advantage, as befitted Engineers, in eating lunch. It was noon by then.

Another two hours drive and the 'Crak' was reached. Mr. Kalayan, who is an expert on antiquities, pointed out the old style steam baths, stables and barns and the beautifully vaulted rooms. The main part of the castle is still in good condition due to the dry climate in that region. By 4.00 o'clock the five busses and four private cars reloaded and started on the 5 hour journey back home. The students thought they were finally on the last lap of the journey. But they were unfortunately mistaken. Halfway between Tripoli and Byblos one of the busses ran out of benzine and had to be towed to the nearest filling station.

The state in which we reached the A.U.B. — a little worse than the one in which we started — was after all only to be expected after a 12 hour bus ride.

Two skiing trips to Dahr-El-Baidar were sponsored by the ESS during the winter season. To avoid



Sunday crowds at Dahr-El-Baidar the trips were made on Saturday afternoons, offering a bold contrast with the «Saturday morning specials».

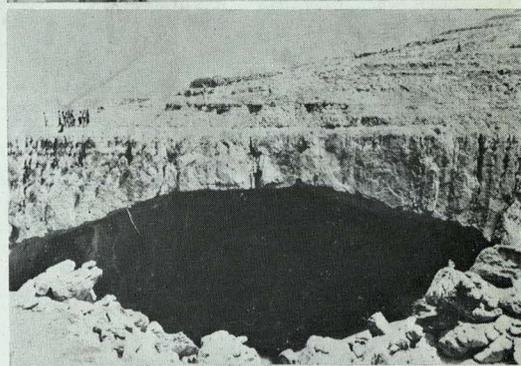
The first trip started right after the usual «Saturday Morning Service» around 12:30. It was cold and there was a thick overcast. Dahr-El-Baidar was reached after an hour's drive in a «classic» bus. At Baidar an iccold wind was blowing. Everybody ran up the hills to warm up and make the best of the short skiing period. There was a thick but soft cover of snow and skiing was possible till 4:30. But at 4:30 a snow storm and heavy fog cut the visibility down to zero. Everybody gathered around Mr. Soghikian who led the way back to the bus through a white and freezing ocean.

The second trip was by no means comparable to the first. It was made on a clear Saturday and the weather was ideal. The bus started early in the morning and everybody sang and laughed until they reached Baidar at 11:00 A.M. It was such a warm day that one could have swam at the sandy Beirut beach yet in less than an hour he could be skiing on the «Snows of Dahr-El-Baidar». How wonderful a country Lebanon can be!

There was plenty of good snow for skiing; only a few people were scattered here and there on the hills. Mr. Soghikian, who accompanied the group, demonstrated some skiing techniques and when the group had finished «operation skiing» and headed back to the bus all had a «chic» sun tan. The bus started down with a «motionless» cargo, for everybody was tired. Maybe some member of next year's graduating class should pick out «Ski lifts and winter sports» as his project. Finally the bus got to Beirut — where all were reminded again that «City Planning Principles» can be



Engineering trips are classified as pleasure or business trips. This difference between the two is unimportant to some yet very essential to others. At 7:00 A.M. the 6th of May four busses with Targets on their front windows started off from the Medical Gate to the B.C.W. their first destination. We were very fortunate in encountering fellow pirates the Agriculture students just in time to see that they did not help themselves to the girls that were to come with us. Reliable sources of gossip retold the argument that took place that morning in the B.C.W. between the «pro-engineers» and the «pro-agriculturists». It was described as «...fire works with clashing of teeth and



shedding of tears».

We left Beirut roaring all the songs there are in all the languages. Bahij Saba sang us his famous operas. Garbis simply whistled to keep in harmony with other singers. Issam Minkara was good enough to remind us of the times and correct us so we could all join in the finale.

Farayya is one of the most beautiful regions in Lebanon. The picturesque slopes of the mountains intrude every now and then into rough patches of snow. The reflection of the sun on the snow measured in lumens is as strong as «Lerstrups maximum» if not more. One can never forget facts even in such a romantic and artistic atmosphere.



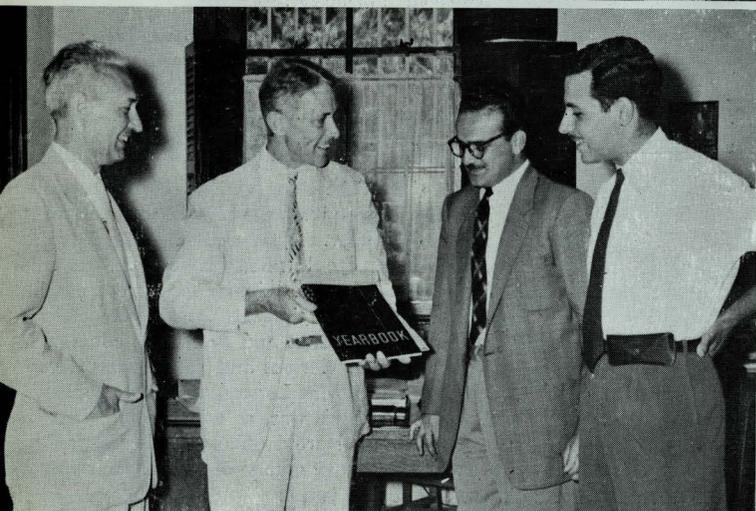
Yes sir here we had all that we wanted; beauty of nature in every phase, plenty of sandwiches, and most of all we were away from the electrified atmosphere of Beirut.

The snow blocked our road so we had to walk for about an hour, gladly escorting our sweet companions, who many-a-time, were clever enough to escort us. Finally we reached the gigantic natural bridge, «boy!» (or quoting Mr. Avedissian, had he been there) «by George!», that was a sight. The thing was too big to be called a bridge, maybe it's a Cave. We had lunch under the bridge and at 11:30 were lost among the rocks. Mr. Kalayan should be mentioned here. As usual he knows every mountain, its history, etc. etc. but he did not know that he aroused the jealousy of Professor Lerstrup and Professor Ledbetter by boasting of his glorious and adventurous days in the presence of Mrs. Lerstrup and Mrs. Ledbetter. The result of this was, as we expected, that the two professors started off on another expedition to prove the «ever green» quality of their species, their unfading youth.

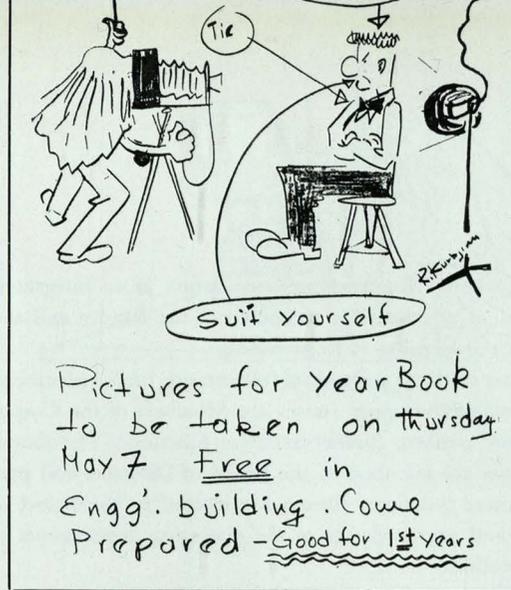


year book

Last is this Yearbook of Engineering in which is maintained the tradition started with the publication of last year's edition. The editorial committee wishes to acknowledge with appreciation all those who cooperated with them. They are especially grateful to Mrs. Garnett Weidner who assisted them tirelessly in editing the final drafts.



Presentation of the first copy of the 1952 Yearbook to the President by the Dean



**editorial committee of
the 1953 year book**

- salim azzam: assistant editor
- berj bedrossian: layout
- prof. raymond ghosn: faculty advisor
- farid kandalaft: assistant
- kamal khuri: editor
- raymond kurkjian: assistant layout
- nabil nassar: secretary
- anwar rizk: treasurer
- bahij saba: chairman ex-officio
- garbis tabourian: general manager



The AUB student Engineering Corporation is an integrated faculty-student effort and is composed of the faculty and the students in the Division of Engineering.

The first year students and special students are Junior Members. The students of the upper classes are Members of the Corporation. They perform junior executive functions. The fourth year students are members of the Board of Directors and perform executive functions. Eleven are elected to the Board of Managers and are in charge of the operating departments of the Corporation.

The Faculty are the Senior Members and form the Board of Advisors. The Dean is Chairman of both Boards.

All Members of the Board of Directors are Leaders of student operating groups. As Group Leaders they are responsible for the effective operation and progress of the members of their groups.

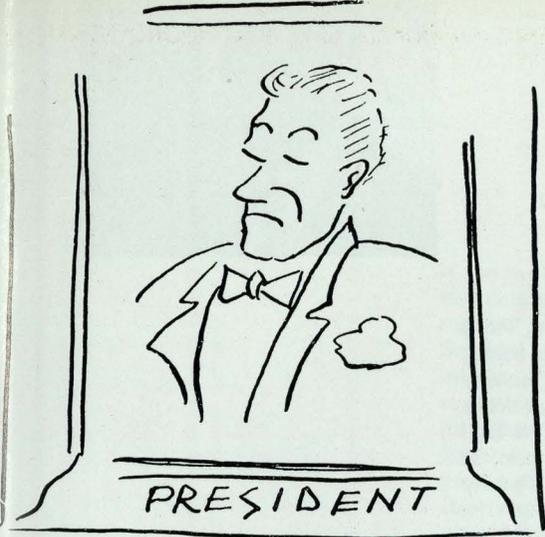
The Corporation is responsible for all the operations of the Division of Engineering including Plant, except the academic functions of the Division. Through the Corporation all Engineering students enjoy the privilege of gaining the managerial and operating experience so necessary to their professional growth and adjustment to an industrial society.

the members of this year's board of managers were :

- f. kandalaf** : president
- g. tabourian** : secretary
- c. donabedian** : promotion
- d. shidrawi** : disbursement
- p. sioufi** : audits
- b. saba** : personnel administration
- i. minkara** : development
- s. kutran** : research
- m. malas** : production
- b. bedrossian** : publications
- a. shabhar** : maintenance
- s. khoury** : security
- r. khabbaz** : service



meeting of the board of directors



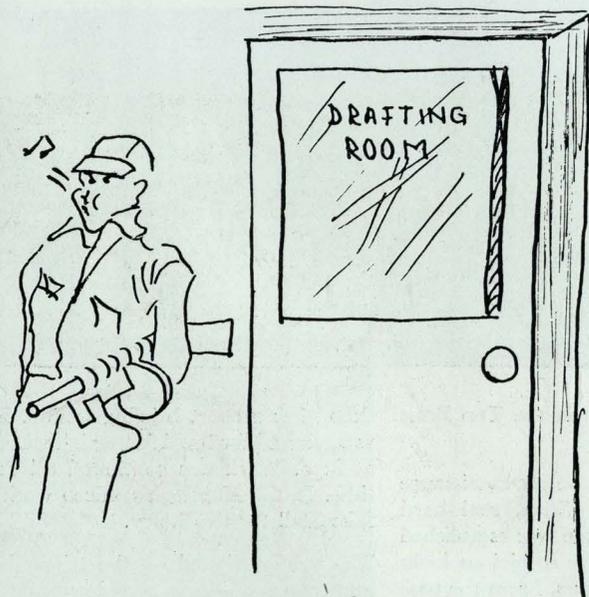
PRESIDENT



SECRETARY



The Treasurer

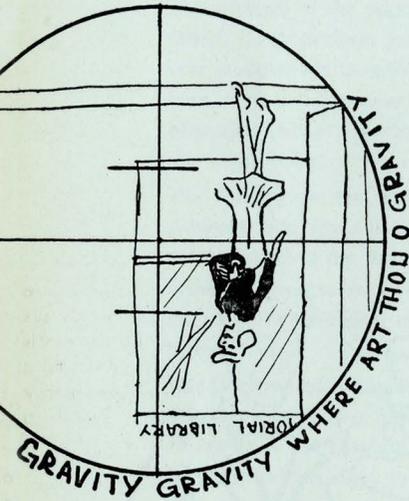


Security



MAINTENANCE

OTHER ENGINEERING ACTIVITIES



summer camp july 1952

The Third Year Engineering students had a real «experience» in last summer's surveying «camp». This «luxury» camp was held in A.U.B. Students «camped» in completely furnished rooms and slept on spring mattresses. They were provided with such luxuries as hot running water and had the «advantage» of spending their time in Beirut. The only thing lacking in this «royal» set up was an honor guard lined up in front of Bliss Hall — the camp's headquarters. Instead, the early morning sun found the surveyors a «self-honoring» guard as they lined up in front of Fisk Hall for «briefing».

The camp was officially scheduled to start on the 24th of June. But Third Year students spent many hours the first few days on the stairs of Fisk Hall «in suspense», awaiting deliberations to decide their fate. Finally the «Top Brass» decision came! and the «survivors» were admitted to «camp». Rooms were assigned with 4-6 students per room. Groups were formed with four students to each group. The Fourth Year supervisors were in charge of the groups and acted as their immediate superiors. Next came the chief supervisors, the



playing hosts

A Farewell party was organized by the Third Year Engineers to honor Professor and Mrs. Seran, whose departure for the States was on 12 January 1953. In spite of his state of health, Professor Seran spent one more hour with his class in West Hall common room. The party started at 8 p.m. It was gay and friendly. No members of the Faculty were invited. Everybody gathered around the fire-place as Mr. Fayyad expressed, on behalf of the class, their gratitude towards the professor and the sorrow that everybody felt because of the sudden and early departure of our teacher. Mr.

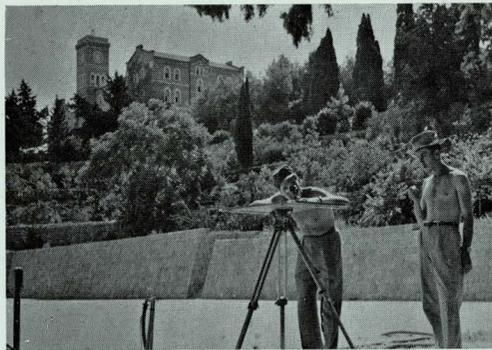


Fayyad then presented him with some fine wood-work made in Jerusalem as a souvenir from the Middle East.

In a last word Commander Seran expressed his thanks for the gift and his joy in teaching at the Engineering School, and his sorrow at leaving us so soon.

After serving tea and cakes, some Texan and cow-boy songs were sung with Kurkjian at the piano. Commander Seran joined heartily in the singing and taught us a funny little song called, «I am a hell of an engineer». At 9.00 P.M. Professor Seran had to leave and the party was over.

summer surveying camps



camp chief — Mr. Taleb — and the Top Brass Professor Manasseh.

The next few days were spent on reconnaissance of the «unexplored» campus. Soon, real hard work was started and a base line was established on the green field — under the suspicious looks of the «intrigued» athletics officers. From the base line emerged a triangulation net which extended all over the University property. For some unforeseen «diplomatic» misunderstanding one triangulation station had to be abandoned. The Radio Phare tower was substituted and came in handy for once for other than «homecoming» planes that buzz our campus. Concrete Monuments were established and it is hoped that they are there to stay — if nobody insists on «tripping» over them. Surveyors wore such «funny» — a la Yeramian — outfits that the boarding department's employees started calling them «Arbajees».

The daily routine brought campers up from their beds at 5:30 every morning. Work was started at

6:00 after a short briefing session. Half an hour was allotted for breakfast which was usually ready at 8:30. Work was continued till 1:00 — lunch time. In the afternoon «office» work was done in Bliss Hall for two hours.

The work assigned — the triangulation scheme and traverses — was completed and handed in by the end of the fourth week. Many groups had to work «over-time» on their maps. The evenings were on the whole the most pleasant time of the camp. Bliss Hall was sometimes turned in to a «Broadway» with the «funny faces» going full blast. Even a band was started and West Hall blamed for bad acoustics. The Beirut movie houses were the favorite «matinee» headquarters, and, of course, the «soiree» was usually spent at Bliss Hall in a way that earned Bliss Hall its Arabic interpretation — Devil's Hall.

All in all the camp was a good experience, «luxury», work, discipline and semi-military life combined, but not like «Salade Russee».

The First Year Engineering students 1951-52, not as fortunate as their predecessors, had a summer camp which was no camp at all, since it was held on the long-familiar grounds of the campus. Yet

it was in no way different from the previous summer camps, for they had lots of hard work to do, together with lots of fun.

Summer camps are usually perfect examples of military training and discipline and theirs was no exception. They were divided into groups of four, and naturally represented the lowest ranks of a hierarchy. Next came the supervisors, the fourth year men, each in charge of two groups, who in their turn received their orders from a head supervisor, Mr. Dawani. Then, at the top of the pyramid, hardly visible, was Professor Manasseh, who directed the whole work as it were from behind the scene.



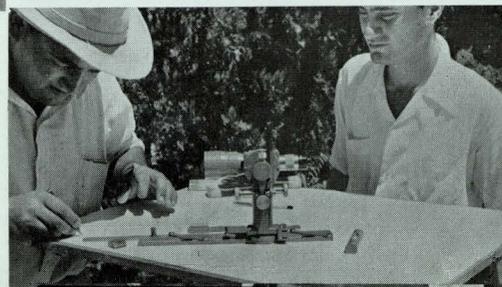
The Second Year Engineering students before them had established a triangulation net across the campus and it was their job to fill in details and to prepare a complete map of the whole college ground. This they did with presumably meticulous precision and were often proud to point out the mistakes of the juniors who, of course, were not there to defend themselves.

Up by half past five in the morning, they started work at six, and except for a half hour break for breakfast, continued to work till one. In the afternoon they had about two hours of rest mostly spent down at the beach. From three to five there was a study period which never lasted two whole hours, for the fourth year men were anxious to be gone. One group especially fortunate was allotted ground on the green field area and so when they got thirsty could rush to the swimming place for a coke which could be made to last for quite a while. Other groups were luckier still, especially those who got the hospital area, and who conclusively proved to the nurses that an engineer can be quite funny in his surveying gear indeed.



Mishaps had their place too. Once one of the groups lost a new «Wild» transit box and spent a desperate hour looking for it, only to learn later that it was purposely taken by one of the supervisors as a punishment for negligence. A fine of one pound each was decreed.

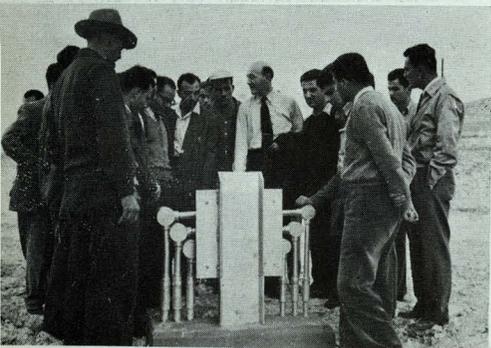
Another misfortune was a 'wretched' steel tape that chose to break under the car of none but the camp director himself. However, leniency had its place too, for the guilty did not suffer the consequences of their crime. This was summer camp — instructive, yet tough experience and honest, hard work.



On the seventh of December the First Year engineering students went on a geological trip to Bizri in South Lebanon. Mr. Avedissian, Professor and Mrs. Baggaley, and the Time and Life International reporter and photographer Lisa Larsen accompanied the group. The trip was sponsored by Mr. Thomson, a Point IV geologist who is in charge of all excavation and other preliminary investigations of the Bizri dam project. Mr. Thomson showed the students some specimens of underground strata drilled at the spot. He indi-

cated that the material encountered; alluvium, silt and limestone being porous, was favorable for the projected dam. The dam will probably be an earth dam and will be used to store water for a full year's supply. The water reserve will be used to generate electric power and irrigate adjoining areas.

Most of the students on the trip showed intense interest in the project. They took down a lot of notes — an unusual amount — for they knew that Mr. Avedissian would quizz them the next day on the subject. The trip proved to be a very useful and informative one. The proposed dam will be one of the greatest undertakings ever attempted by the Republic of Lebanon.

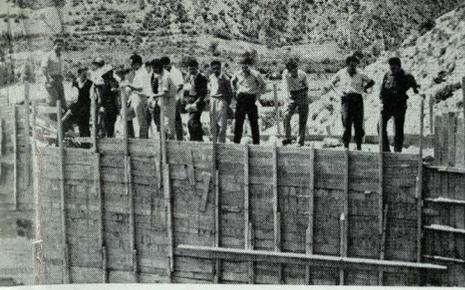


On 9 December, the Fourth Year students were invited to visit the Tapline installations at Zahrani. They met at the medical gate — the grand central terminal of A.U.B. — and left early in the afternoon. Professor Baggaley accompanied the group. It was threatening to rain at any instant but the «Junior» engineers insisted on going against all the odds for more than one reason. The most outstanding being to pose a la Hollywood for Time-Life International photographer Lisa Larsen, who was on a «Life» mission in Beirut. The group reached Zahrani around two thirty. They were led into the famed administration building where they were met by Captain Jones of the Tapline. Captain Jones demonstrated a very well made model of the whole site. On the model were represented all the various structures to an exact scale and even the alining markers were reproduced.

The group was driven up to tank village where they inspected the modern floating-roof oil tanks. Professor Hope, Professor Lerstrup, Mr. Soghikian and Miss Larsen arrived soon after and joined the already «oil-absorbed» group. The students posed around the tanks — as if Cecil B. De Mille were there to direct the process — and were «shot» by Miss Larsen.

Next they headed for the power plant (Tapline knew better than to trust the truly «alternating» current available locally). Some old «funny faces» working for Tapline were with the visitors to show them around this area. But the real excitement came when the control post and manifolds were inspected. In the control post all the necessary controls of the Turaif Tank Village section of the pipeline stand at the finger tips of the men at the station. This well guarded post is the nerve cell of the whole system. Upon inspecting the hydrau-





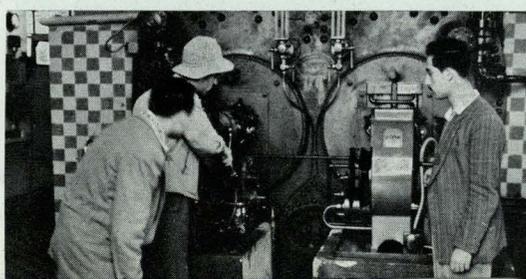
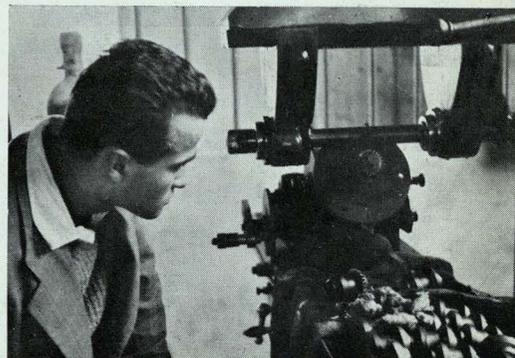
pointed out a critical section. «There», he explained, «We are taking a chance». The control panel boards were staggered with red and green flickering lights which were being watched attentively by the men inside.

The manifolds serve the purpose of reducing the pressure of the fluid, namely, oil in the system through throttling. Millions of heat calories are released into the the air during the process. This could have been used to generate valuable power instead of being merely thrown away. However, oil is oil and Bob Hope is Bob Hope, so there is no use speculating. It was getting very dark as the group started back but they stopped for a moment to look at a new nuilding in its early stage of construction. The building was designed by an architect and an engineer who are both «funny faces». The structural «funny face» had to design mat foundations because his superiors insisted on that particular orientation since the sub-strata was so treacherous that even the «Rakke» continuous foundations often prescribed by «Chief funny face» could not be utilized. It sure was a «funny» structure.

The group got to Beirut just in time to permit Tash-Tash and Issam to make the 9:00 o'clock show on time.



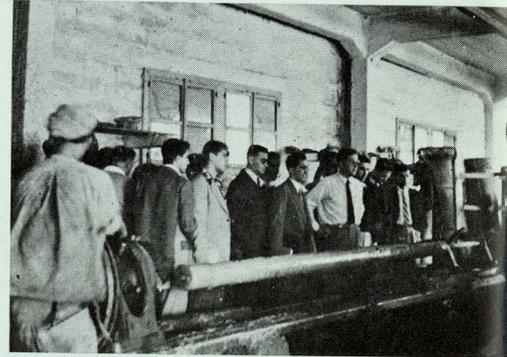
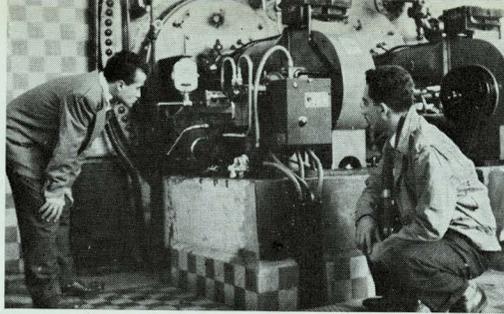
Nahr-El-Bared is a river to the North of Tripoli. The purpose of the trip on the ninth of May to Bared was to see a hydroelectric development uncommon in the Middle East. The project is in its final stages of construction and exploits the potentialities of two rivers — Bared and Musa. A dam was built across the course of the Musa river intercepting its flow and feeding water through a tunnel to a 10,000 KVA power plant on the Bared river. After visiting the dam structure, the group walked through the 600-meter tunnel as a cool and refreshing breeze blew through it. The total head of water made available by the



tunnel is 145 meters. The second stage of development will utilize the waters of the Bared river to generate some 15,000 KVA. This technical trip was very instructive and gave the engineering students assurance that the power shortage in Lebanon is being tackled more than theoretically.

field trips

The tenth chime had just sounded from College Hall's «precision» clock and the bus was ready to leave the medical gate «terminal». Suddenly a late comer showed up — upholding the Lebanese mark of «distinction» — going «full steam ahead» and waving his hands a la helicopter. He was admitted and the bus started for the «Corniche». The «expedition» was a routine Third Year field



trip with Mr. Abdul-Malik. The first stop was at the Municipal Workshop where the members of the «expedition» inspected the plant of «Idealit» — a type of asphaltic concrete. Mr. Abdul-Malik tried in vain to explain the process over the noise of the competing «museum type» machines.

The group then headed for the new Beirut River bridge. There they inspected reinforced concrete piles which were used in the bridge construction. This will give them a little more confidence the next time they have to cross that bridge.



film series

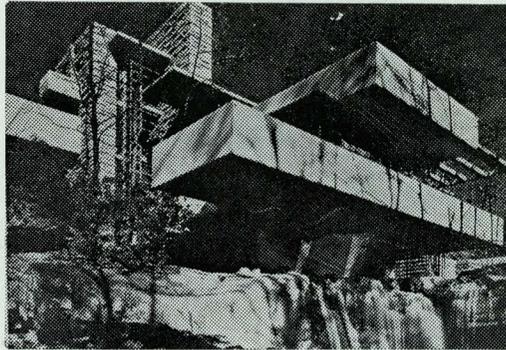
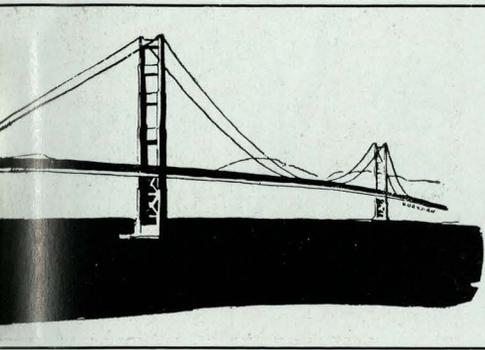
During the current academic year, several one-hour film programs were scheduled on various technical and informative subjects. The aim of these film programs is to complement the theoretical training and course matter with visual aids through the medium of the movie.

A program on Petroleum Industry and another set on tunnel excavation, construction of dams and suspension bridges was shown to Engineering I students for their course in Engineering Geology. A series on «How An Aeroplane Flies» and another on «Lubrication» were scheduled for Engineering II and III year students. Also a film strip on Centrifugal pumps and another set on general phases of industry were shown to senior students. Forthcoming are four sets of films on milk processing, Water Supply Engineering, Irrigation and Sanitation all for upper classmen. All of these shows have been held in the Lecture Hall of the Engineering School and the films have been loaned from U.S.I.S., The Shell Co. of Syria and Allis Chalmers Manufacturers.



DAGGLEY GOES ON A FIELDTRIP





to an engineer

*You stately builder of the silent land ;
You stout erector of the age of yore ;
Who took frail, falling humans by the hand,
Led them to prosper and to fall no more.
You built the land, conquered the sea, and flew
Into the unknown depths of mystic space ;
You pulled the trigger of success, and you
Stood watching man's fast, never-ceasing race.
You taught men how to live, yet They despised
Your way of living — all the good and fair ;
The strife, the faith, the fervour they misprized ;
Misused thy tools to ruin and to tear.
You toiled for them so that they might be free,
They bound in chains, forsooth, both you and me.*

shawki freiha

second year engineering

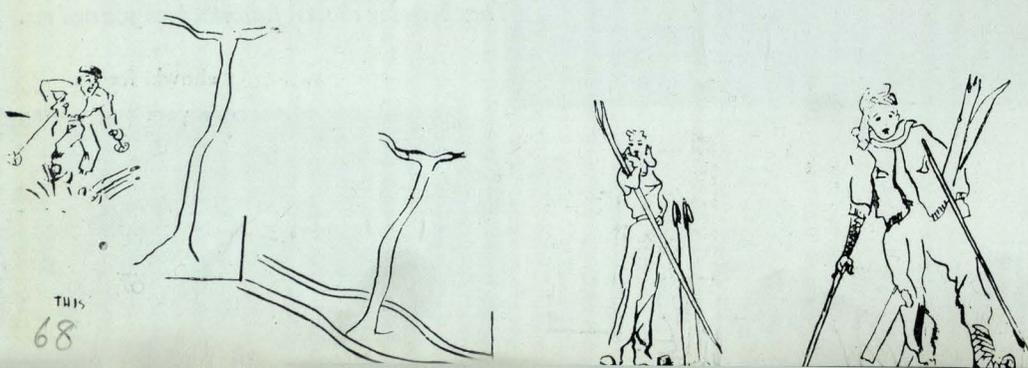
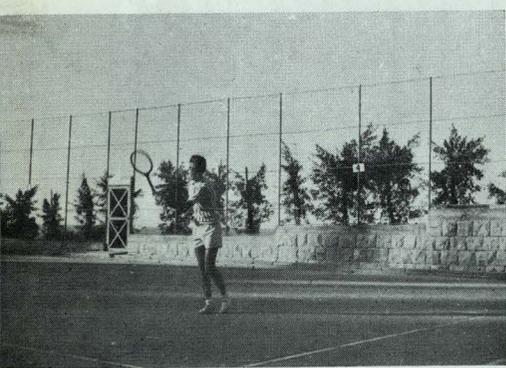
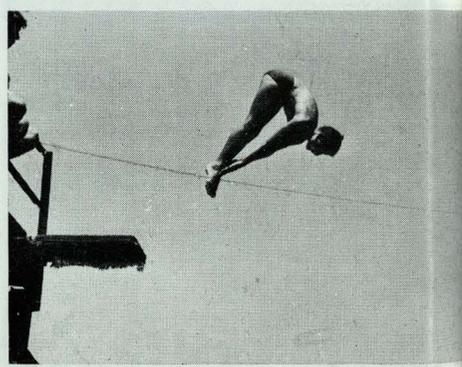
UNIVERSITY SCHOOLS
VOLLEYBALL LEAGUE
CHAMPION
1952 - 1953

SCHOOL OF
ENGINEERING

sports

Beyond any doubt, a good portion of the A.U.B. student body participates in one or more of a big variety of athletic activities. Sports is playing a new and important part in the life of the Engineering Society with the aim of maintaining a healthy physical, as well as mental, attitude in the school. Four teams of Football, Basketball, Volleyball, and Baseball have been formed with students selected exclusively from the Engineering school. They play against teams of the other Schools in the University. On the whole the results of a series of matches have been encouraging. The Engineering Soccer team and Volleyball team won the AUB Championship.

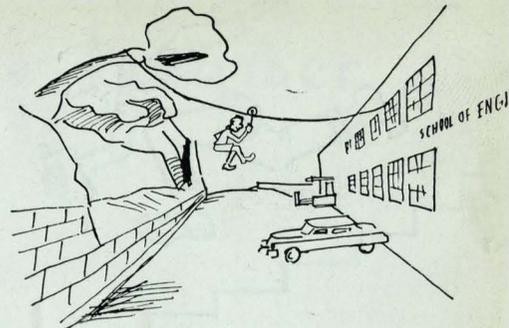
Engineering students participate also in tennis, swimming, cross-country, track and field, archery, body improvement, weight lifting, rowing and tug-of-war championships. The school is keen on promoting interest in sports with carry-over value, so that the students will be able to enjoy sports after their university years.



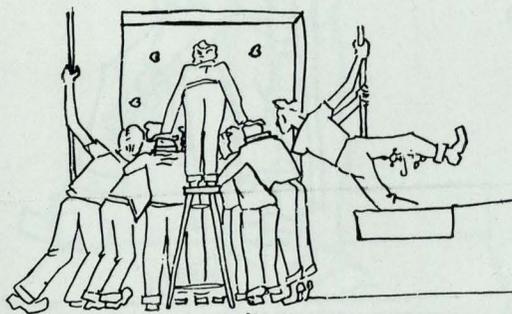
FAMOUS LAST WORDS



"MANASSAH IS OUT OF TOWN"



APPLIED ENGINEERING



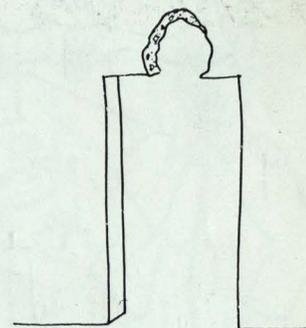
THE DEAN HAS A NEW SECRETARY



THIS WE HAVE TO ADMIT



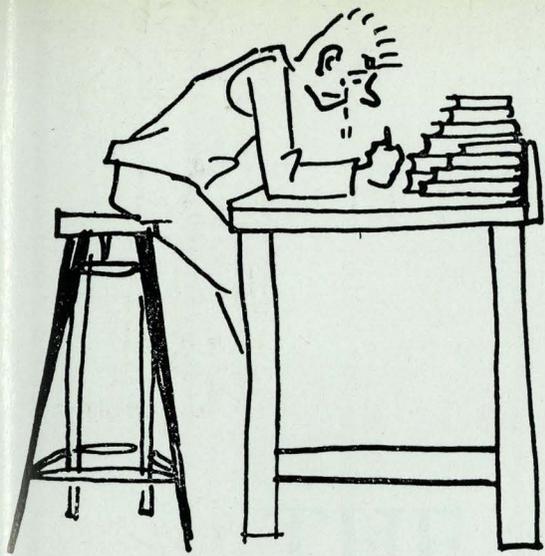
YALLA YA ZEIN!!



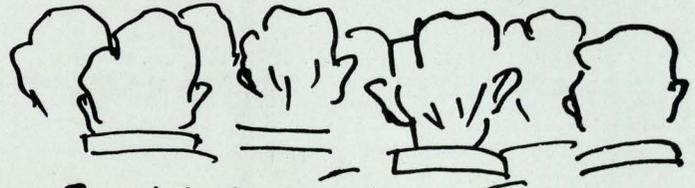
Midani Was Here



A Scene to Remember



saturday Quizzes



Garbisier sells a camera



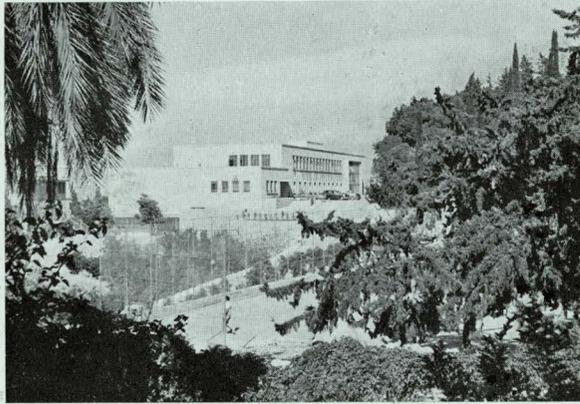
The Thursday Songs

The cartoons are by Raymond Kurkjian

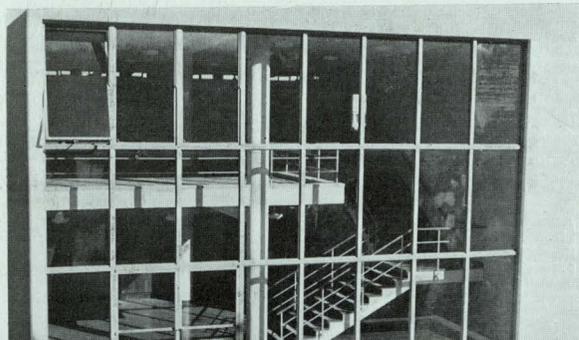
THE ENVIRONMENT

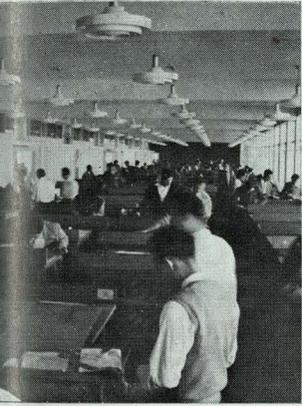


THE BUILDING

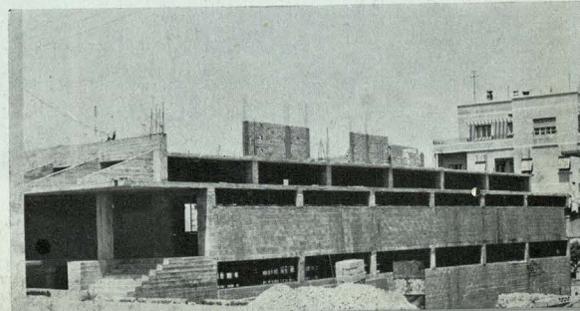


this building was made possible largely through the contribution of Mr. STEVEN D. BECHTEL, chairman of international bechtel, inc., and of the allied engineering and service organization.

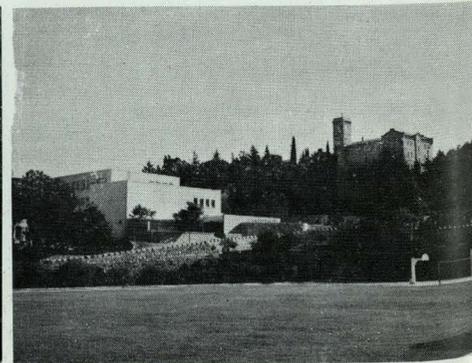
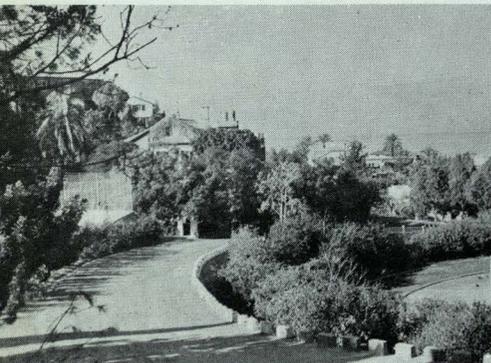
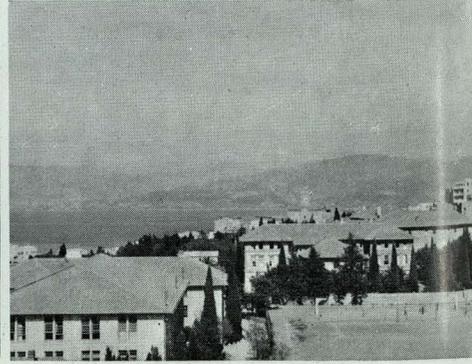
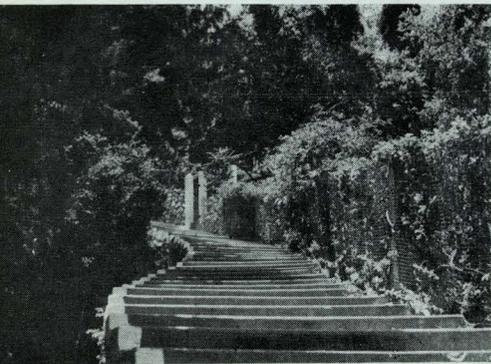


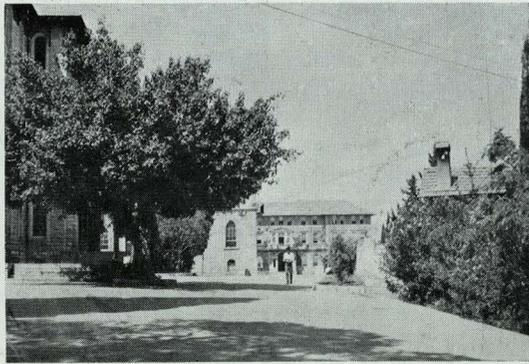
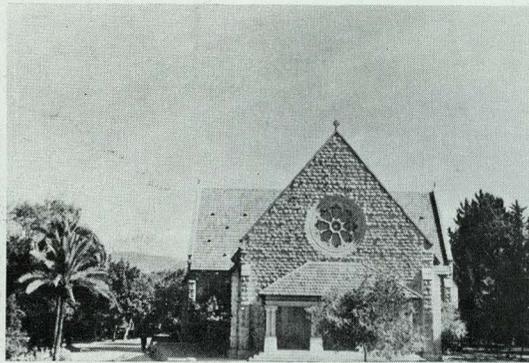
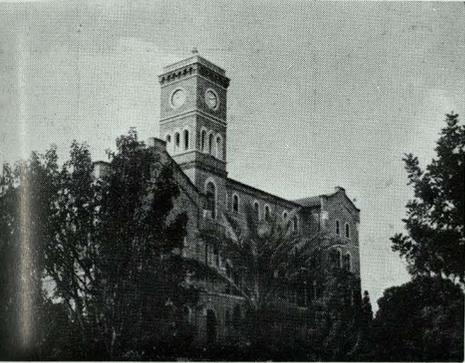


THE SHOPS (UNDER CONSTRUCTION)



THE CAMPUS





CANONS OF ETHICS FOR ENGINEERS

foreword

Honesty, justice, and courtesy form a moral philosophy which, associated with mutual interest among men, constitute the foundation of ethics. The engineer should recognize such a standard, not a passive observance, but as a set of dynamic principles guiding his conduct and way of life. It is his duty to practice his profession according to these, Canons of Ethics.

As the keystone of professional conduct is integrity, the engineer will discharge his duties with fidelity to the public, his employers, and clients, and with fairness and impartiality to all. It is his duty to interest himself in public welfare, and to be ready to apply his special knowledge for the benefit of mankind. He should uphold the honor and dignity of his profession and also avoid association with any enterprise of questionable character. In his dealings with fellow engineers he should be fair and tolerant.

professional life

Sec. 1. The engineer will co-operate in extending the effectiveness of the engineering profession by interchanging information and experience with other engineers and students and by contributing to the work of engineering societies, schools, and the scientific and engineering press.

Sec. 2. He will not advertise his work or merit in a self-laudatory manner, and he will avoid all conduct or practice likely to discredit or do injury to the dignity and honor of his profession.

relations with the public

Sec. 3. The engineer will endeavor to extend public knowledge of engineering, and will discourage the spreading of untrue, unfair, and exaggerated statements regarding engineering.

Sec. 4. He will have due regard for the safety of life and health of the public and employees who may be affected by the work for which he is responsible.

Sec. 5. He will express an opinion only when it is founded on adequate knowledge and honest conviction while he is serving as a witness before a court, commission, or other tribunal.

Sec. 6. He will not issue *ex parte* statements, criticisms, or arguments on matters connected with public policy which are inspired or paid for by private interests, unless he indicates on whose behalf he is making the statement.

Sec. 7. He will refrain from expressing publicly an opinion on an engineering subject unless he is informed as to the facts relating thereto.

relations with clients and employers

Sec. 8. The engineer will act in professional matters for each client or employer as a faithful agent or trustee.

Sec. 9. He will act with fairness and justice between his client or employer and the contractor when dealing with contracts.

Sec. 10. He will make his status clear to his client or employer before undertaking an engagement if he may be called upon to decide on the use of inventions, apparatus, or any other thing in which he may have a financial interest.

Sec. 11. He will guard against conditions that are dangerous or threatening to life, limb, or property on work for which he is responsible, or if he is not responsible, will promptly call such conditions to the attention of those who are responsible.

Sec. 12. He will present clearly the consequences to be expected from deviations proposed if his engineering judgment is overruled by non-technical authority in cases where he is responsible for the technical adequacy of engineering work.

Sec. 13. He will engage, or advise his client or employer to engage, and he will co-operate with, other experts and specialists whenever the client's or employer's interests are best served by such service.

Sec. 14. He will disclose no information concerning the business affairs or technical processes of clients or employers without their consent.

Sec. 15. He will not accept compensation, financial or otherwise, from more than one interested party for the same service, or for services pertaining to the same work, without the consent of all interested parties.

Sec. 16. He will not accept commissions or allowances, directly or indirectly, from contractors or other parties dealing with his client or employer in connection with work for which he is responsible.

Sec. 17. He will not be financially interested in the bids as or of a contractor on competitive work for which he is employed as an engineer unless he has the consent of his client or employer.

Sec. 18. He will promptly disclose to his client or employer any interest in a business which may compete with or affect the business of his client or employer. He will not allow an interest in any business to affect his decision regarding engineering work for which he is employed, or which he may be called upon to perform.

relations with engineers

Sec. 19. The engineer will endeavor to protect the engineering profession collectively and individually from misrepresentation and misunderstanding.

Sec. 20. He will take care that credit for engineering work is given to those to whom credit is properly due.

Sec. 21. He will uphold the principle of appropriate and adequate compensation for those engaged in engineering work, including those in subordinate capacities, as being in the public interest and maintaining the standards of the profession.

Sec. 22. He will endeavor to provide opportunity for the professional development and advancement of engineers in his employ.

Sec. 23. He will not directly or indirectly injure the professional reputation, prospects, or practice of another engineer. However, if he considers that an engineer is guilty of unethical, illegal, or unfair practice he will present the information to the proper authority for action.

Sec. 24. He will exercise due restraint in criticizing another engineer's work in public, recognizing the fact that the engineering societies and the engineering press provide the proper forum for technical discussions and criticism.

Sec. 25. He will not try to supplant another engineer in a particular employment after becoming aware that definite steps have been taken toward the other's employment.

Sec. 26. He will not compete with another engineer on the basis of charges for work by underbidding, through reducing his normal fees after having been informed of the charges named by the other.

Sec. 27. He will not use the advantages of a salaried position to compete unfairly with another engineer.

Sec. 28. He will not become associated in responsibility for work with engineers who do not conform to ethical practices.

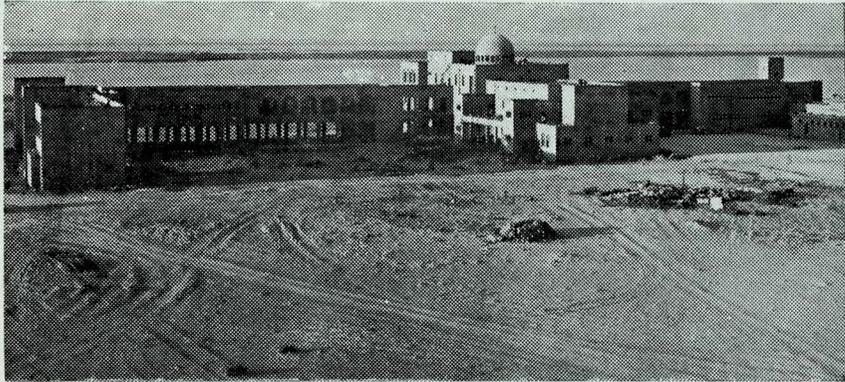
(Adopted by Engineer's Council for Professional Development, October 25, 1947).

STUDENTS DIRECTORY AND ADVERTISEMENTS

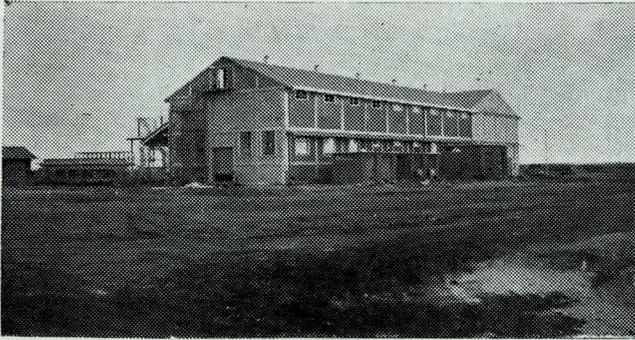
students directory

ISSAM ABDEL BAKI	Maamary street, Ras Beirut	Beirut, Lebanon
NABIL ABDUL KARIM	Rue Sadat, Imm. Shatila Ghalayini	Beirut, Lebanon
MICHEL ABU JAWDEH	Jourat el Ballout, Broummana	Matn, Lebanon
SAAD ABOU KHADRA	Al Nijmeh, Seif el Din el Khatib Street	Damascus, Syria
AJAJ BUL HUSN		Betikhnein, Lebanon
FUAD ABU NASR	Artois Street, Ras Beirut	Beirut, Lebanon
GEORGES ABU SAAD	Rahbeh	Akkar, Lebanon
ELIAS ABU SABA	Miya Miya	Sidon, Lebanon
WAFIK ADADAH	Ashrafieh street, Adadah Bldg.	Beirut, Lebanon
TALAL AFIFI	Samadi Bldg., Hamra street	Beirut, Lebanon
ALI ALAMUDIN		Amman, Jordan
ABDUL HUSAYN ALI AL HILAWI	Sadoon 67A3 / 2 / 1	Baghdad, Iraq
RIAD ALI AHMAD	Public Work; Ministry	Beirut, Lebanon
MAJID AL JISHI	c/o Education Dept.	Bahrein
KHALID AL MUSFI	c/o Sheikh Salim Alamudin	Baakline, Lebanon
FARID ANAWIS		Kamichlie, Syria
ASFOUR ANTOINE	Hamra street, Hindi Bldg.	Beirut, Lebanon
HAGOP ATESHIAN	Imm. Farj Tohmé, St. Michel (Medawar)	Beirut, Lebanon
GEORGES AYYOUB	P.O.B. 507	Tripoli, Lebanon
HANNA AYYOUB		Douma, Lebanon
VAROUJ AZADIAN	Maamari street, Halabi Bldg.	Beirut, Lebanon
NAJM AZAR		Kab Elias, Lebanon
SALIM AZZAM	Azzam's Farm, Saad Nail	Beka', Lebanon
RAYMOND BADRAN	Monsif	Djoubail, Lebanon
VAHE BAKJEJIAN	Rue Ibrahim Hawrani, Imm. Daouk	Beirut, Lebanon
EDWARD BALABANIAN	c/o Krikor Balabanian, Bab el Faraj, "New York Garage"	Aleppo, Syria
YENOUK BALIKIAN	P.O.B. 818	Beirut, Lebanon
VICTOR BANKOUL	P.O.B. 764	Beirut, Lebanon
USSAMA BARUDI		Hama, Syria
BERJ BEDROSSIAN	79 Rue de Syrie	Beirut, Lebanon
ARA BILEZIKJIAN	P.O.B. 381	Beirut, Lebanon

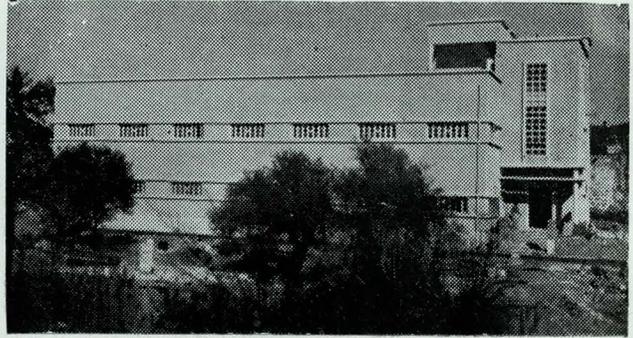
(Continued on page 86)



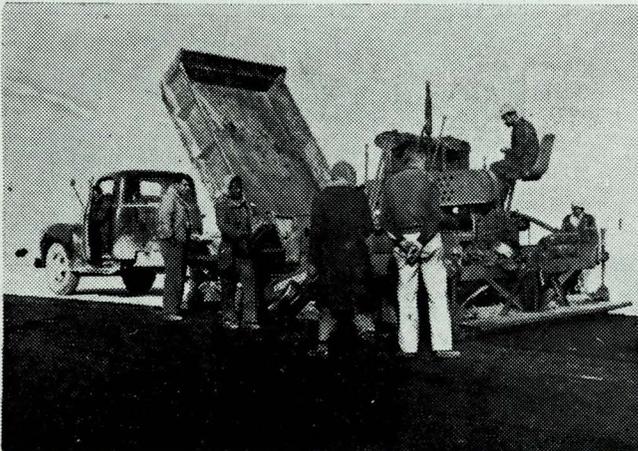
College at Kuwait



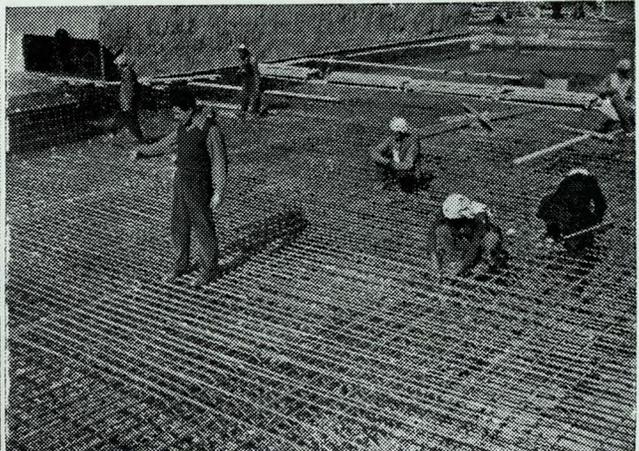
Power house at Um-Saïd
Qatar



Engineering dept. of C.A.T. Co.
at Hazmieh



Asphalting roads



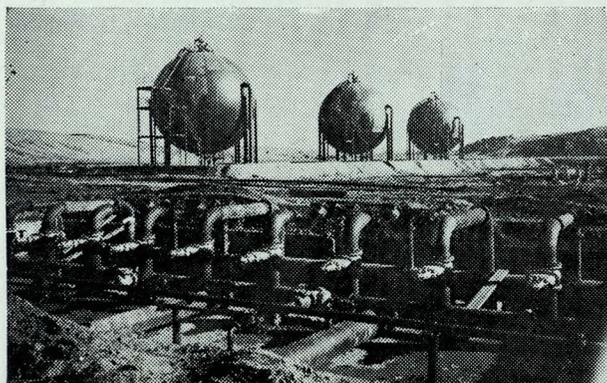
Reinforcement for concrete mat



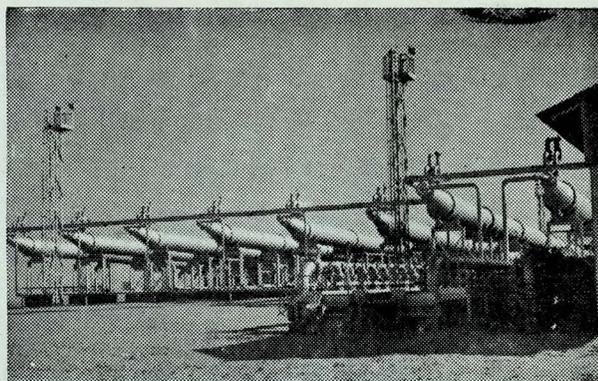
Builders of Steel bridges
& buildings

All welded oil storage tanks
& floating roofs

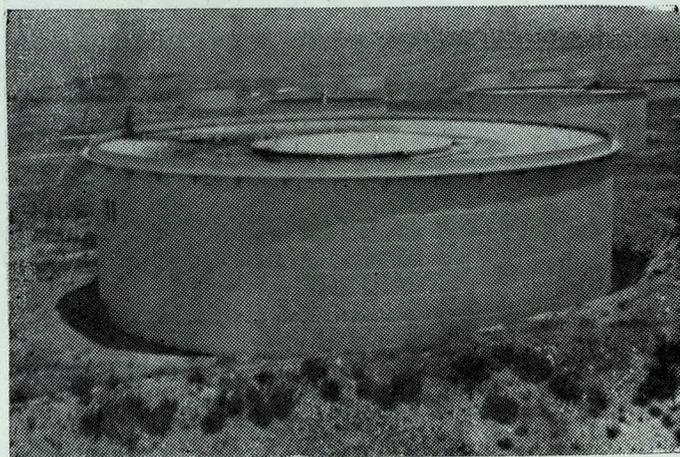
STRUCTURAL & CIVIL ENGINEERS



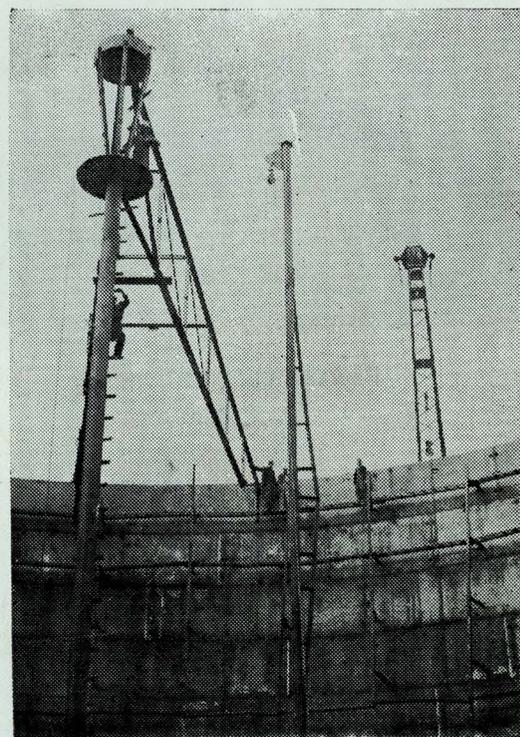
Manifolds and spherical tanks



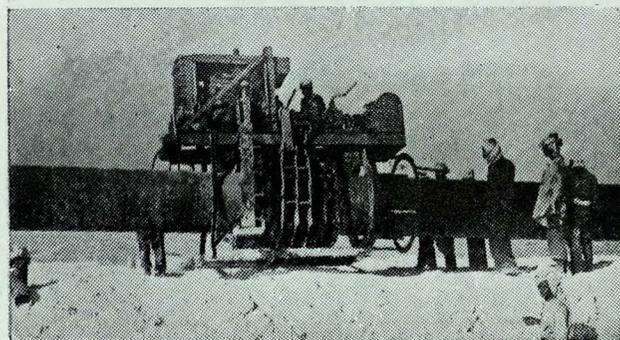
Gathering and degassing Centre



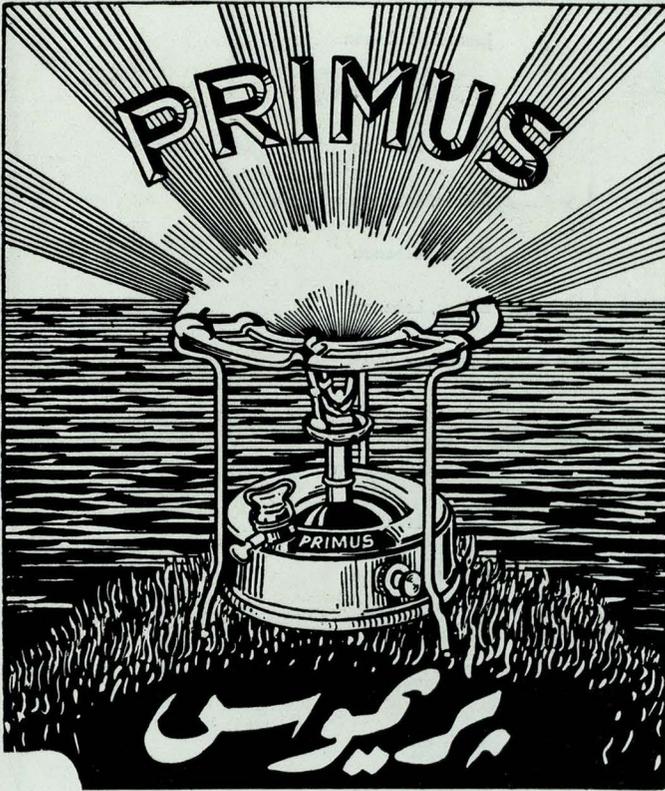
200,000 bls. crude oil tank



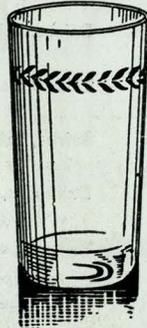
Erection of a 200,000 bls oil tank



Coating and wrapping a 30" Pipeline



سكوتش كريم
وسكي
هو الافضل



Scottish Cream

GENERAL AGENTS
CONTRACTING & TRADING C°

TYRESOLES

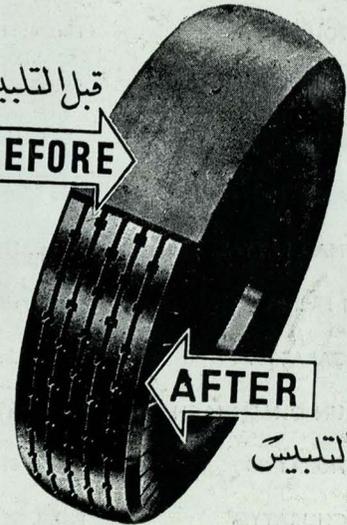
الطريقة المثلى

The Proved Process of
Tyre Reconditioning

لتجديد اطارات الطاووسوك

قبل التلبيس

BEFORE



AFTER

بعد التلبيس

هذه الطريقة تجدد حياية
الاطارات وتجعلها افضل من
الاطارات الجديدة باقل النفقات

New Tyre mileage over again
and at lowest cost per mile

CONTRACTING AND TRADING C°

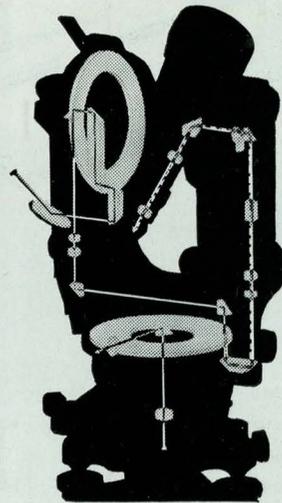
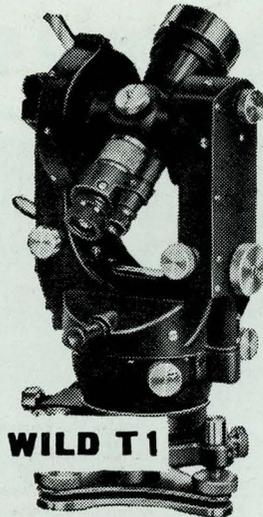
BEIRUT - KHAN ANTOUN BEY
TEL. 96 P.O.B. 1036 TELEG. ADR. CAT
13-14-15

FRANÇOIS BOURI		Jounieh, Lebanon
MUNIR BOULOS	c/o Miss Suad Boulos, I.P.C.	Tripoli, Lebanon
NADIM BOULOS	Verdun Street	Beirut, Lebanon
ROGER CHEHIRE	Rue Jeanne d'Arc, Ras Beirut	Beirut, Lebanon
SHAFIK COTRAN	Imm. Abul Shalash, Sanayeh	Beirut, Lebanon
UMAR DABBAGH	c/o Dr. Subhi Mahmassani	Beirut, Lebanon
HISHAM DAJANI	Box 4085, Jaffa Gate	Jerusalem
WAEI DAJANI	Upper Basta, Imm. Fakhouri	Beirut, Lebanon
ARTHUR DAOU		Djoubeil, Lebanon
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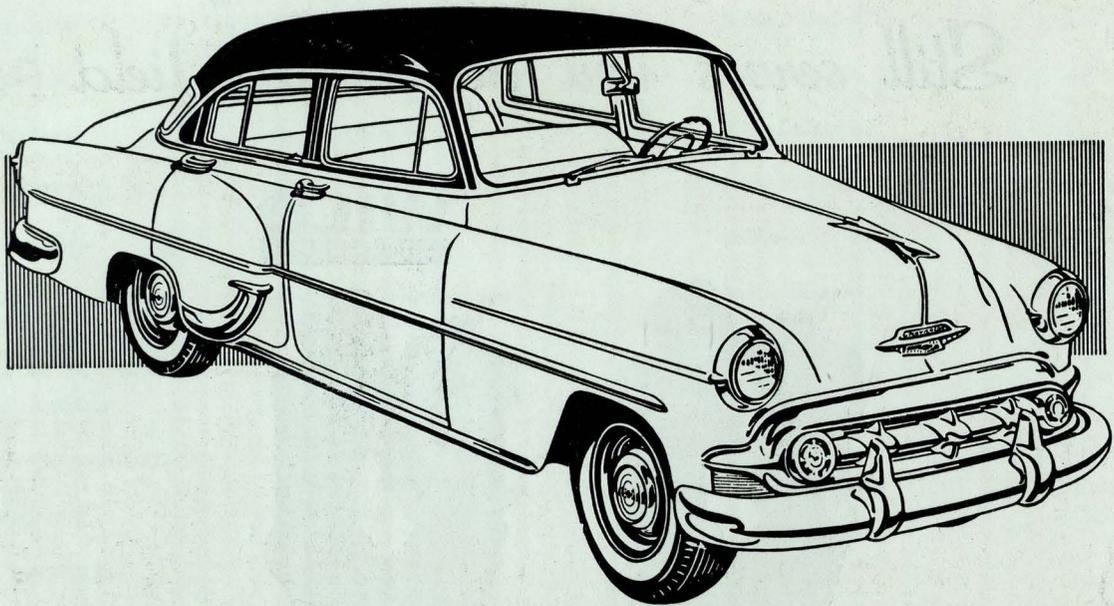
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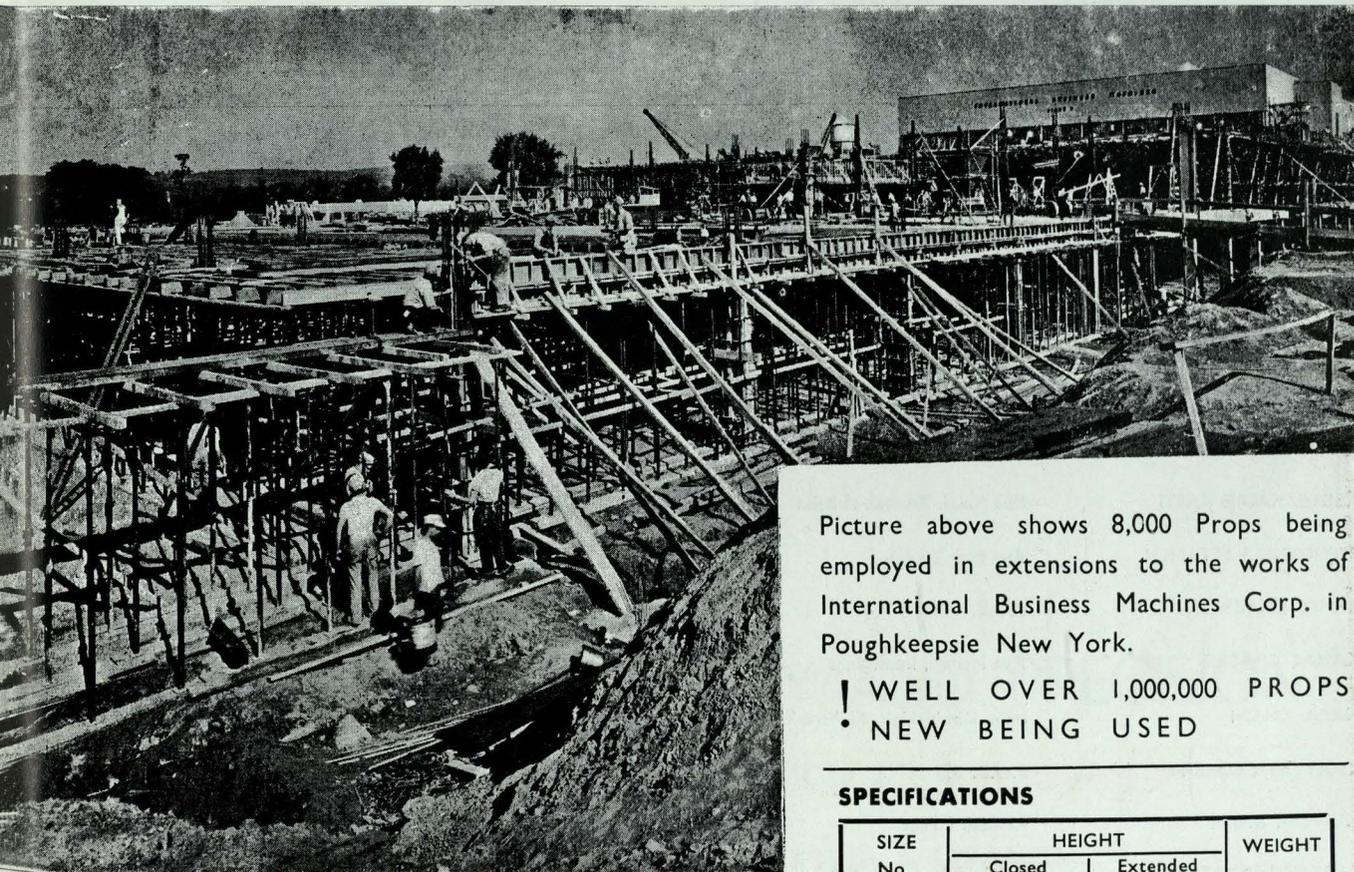
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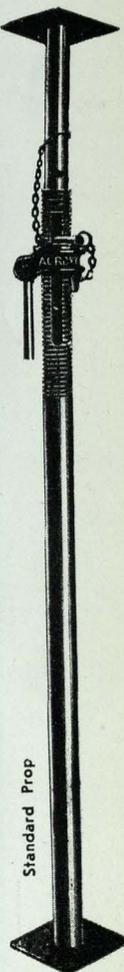


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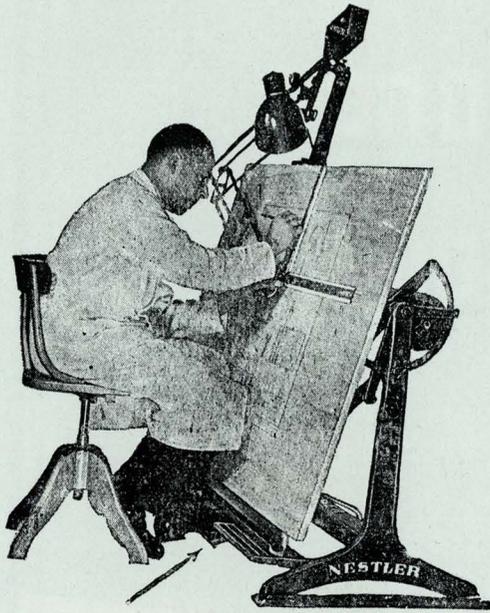
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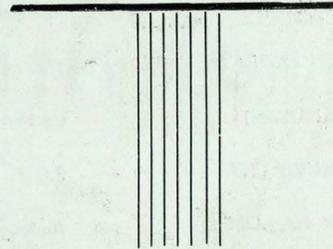
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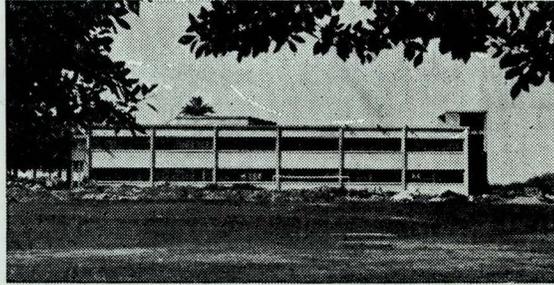
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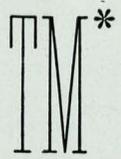


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