

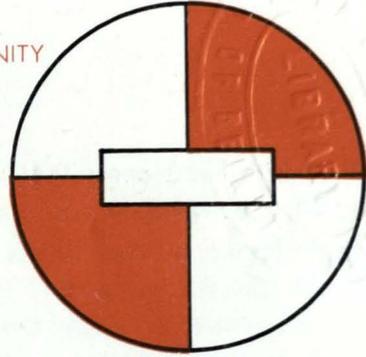
A. U. B.
SCHOOL OF
ENGINEERING

YEARBOOK

1955

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1955

SERVICE TO HUMANITY

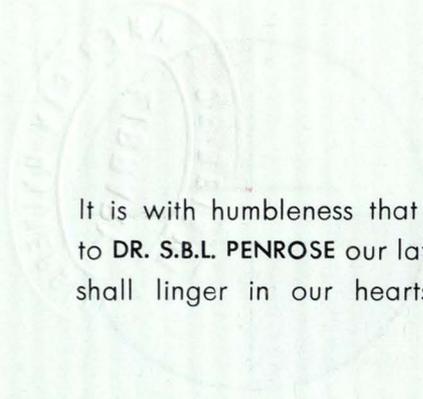


*school of
engineering*

the 1955 year book

American University of Beirut

BEIRUT, LEBANON



It is with humbleness that we dedicate this Yearbook to **DR. S.B.L. PENROSE** our late president, whose memory shall linger in our hearts to the last of our days.

CONTENTS

- Faculty, and Industrial Training Teaching Staff
- The Students
- About the Graduates
- The School and Environment
- Directory of Students and Advertisements

Four years ago, this Engineering School was but a fanciful dream to the Engineering students. The Yearbook of that year, the first publication of Engineering life at A.U.B., was a hopeful representation of that vision.

Unlike most dreams, our dream was realized, and the Engineering School and building came into being. The fact that the Engineering students were belonging to one family was strongly felt in the Yearbooks of the first two years in our new building. The group feeling was beginning to crystallize, and one could see more pictures of gatherings, trips, sports, in which the collective is the most dominant.

Each year the Yearbook has served to reflect the true image of Engineering life. One would expect, after four years of development and settling down a richer Yearbook to represent our present well-channeled Engineering life with all its divergent activities. Our aim in this Yearbook is to that end.

One of the improvements noted in this Yearbook is the replacement of individual student photographs by collective pictures, taken of each class as a whole, promoting the group feeling. Separate pictures of the graduating class have been retained, for remembering their faces better after they are gone. To keep in touch with previous graduates, the "Graduates' Corner" has been expanded. To improve the feeling of a real Engineering Yearbook a section on the Fourth Year Student Projects has been included. "Students' Musings" has been expanded, adding an Arabic Section in order to give those who have a literary inclination in that language a chance to contribute to this Book.

These and other improvements have been made possible through the cooperation of some of the Engineering students, who gave us their very valuable suggestions.

We wish to extend our gratitude to our able Dean, whose efforts have made life for us at A.U.B. most enjoyable and most beneficial.

Engineer's Oath

Using the heritage left by my professional forebears, 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.

ميمين المهندسين

أَتَعَهَّدُ مُسْتَعِينًا بِالْأَرِثِ الَّذِي تَرَكَهُ أَسْلَافِي فِي هَذِهِ الْمِهْنَةِ أَنْ أُكْرِسَ نَفْسِي لِلتَّسْعِيِّ وَرَاءَ الْمَعْرِفَةِ وَالْبَحْثِ عَنِ الْحَقِيقَةِ فِي إِمْدَادِ الْمُجْتَمَعِ بِمَا فِي مِهْنَتِي مِنْ فَوَائِدَ وَسَأَبْذُلُ جُهْدِي دَوْمًا فِي نَشْرِ مَا أَكْتَسَبْتُهُ مِنْ عِلْمِ هِنْدَسِي وَأَخْذُ عَلَى نَفْسِي أَنْ أَعْلِمَ الشَّبَابَ الْمُتَمَيِّنَ إِلَى هَذِهِ الْمِهْنَةِ .

وَحِفَظًا عَلَى مَا تَمَتَّعَ بِهِ هَذِهِ الْمِهْنَةُ مِنْ رَفِيعِ الْمَقَامِ فَإِنِّي سَأَبْذُلُ جُهْدِي فِي حِمَايَةِ مَصْلَحَةِ كُلِّ فَرْدٍ مِنْ رُغْمَالِي الْمُهَنْدِسِينَ وَالْمَحَافِظَةَ عَلَى سِمَعَتِهِ الطَّيِّبَةِ .

وَأَتَعَهَّدُ لِلْجَمِيعِ بِالْأَمَانَةِ وَصِدْقِ الْعَامَلَةِ وَالنَّسَاحِ وَالْإِحْتِرَامِ وَالْوَلَاءِ بِمَا تَطْلُبُهُ مِثْلُ هَذِهِ الْمِهْنَةِ وَكِرَامَتِهَا . وَأَعِدُّ بَأَنْ أَضَعُ عَلَيَّ وَخِبْرَتِي فِي خِدْمَةِ الْمُجْتَمَعِ بِكُلِّ مَا أُوتِيتُ مِنْ إِخْلَاصٍ .

وَأَعِدُّ بَأَنْ أَقُومَ بِكُلِّ أَمَانَةٍ بِمَا تَفْتَضِيهِ وَاجِبَاتُ مِهْنَتِي وَأَنْ أُسَيِّرَ حَيَاتِي وَأَعْمَالِي بِمُوجِبِ قَانُونِهَا الْخُلُقِيِّ .

مدرسة الهندسة ، الجامعة الاميركية في بيروت

Our life this year at A.U.B. was shaken by the sudden death of our President, Dr. Stephen B.L. Penrose. This great loss was strongly felt. The students realizing what Dr. Penrose had meant to the University were left with a feeling of uncertainty and insecurity.

Dr. Penrose's interest in Engineering at A.U.B. was profound. It will be worthwhile to note that he began his academic life at A.U.B. as an instructor in Physics. That was in 1928. Twenty years later, he became President of the American University of Beirut. In this capacity, he worked effectively to strengthen Engineering. In fact, he was one of those who worked hard to make the erection of our new Engineering Building and its adjoining shops, possible. We see him in the picture beside, taken on October 13, 1950, together with Mr. S.D. Bechtel, the donor of our Building. They were choosing the site where our Engineering Building now stands and where we were destined to spend four of the most beautiful years of our lives. But his interest did not stop at that. In the last two years of his life, he was constantly taking long trips to the States, raising funds for A.U.B. He took part in most of our Engineering activities with the spirit of one who actually belonged in our midst.

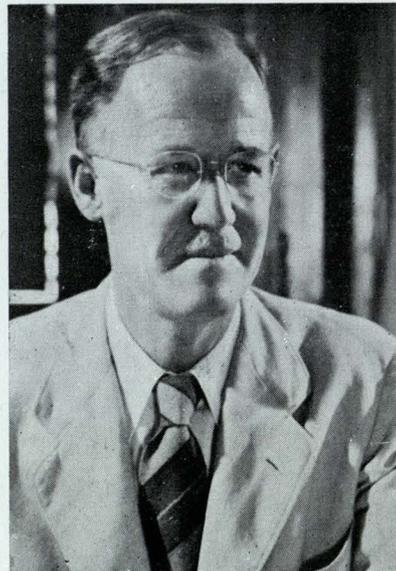
It would seem inappropriate to idly lament such a great man. To serve his memory, is to follow with honesty and steadfastness the steps which he laid before us. We should take the example of his life, to follow in our strivings, the steadfastness of purpose, the dynamic personality, the leadership, and the incessant efforts to serve humanity.



LATE PRESIDENT STEPHEN B.L. PENROSE AND MR. STEPHEN D. BECHTEL



Dr. Constantine K. Zurayk
THE ACTING PRESIDENT



ARCHIE S. CRAWFORD
Vice President & Treasurer



FUAD SARRUF
Vice President in charge of Relations



DIMITRI BARAMKI
Curator, A.U.B. Museum



FARID A. FULAIHAN
Registrar



MUSA Y. HUSAYNI
Director of student
activities



CHRISTOPHER A. LEGGE
Librarian



AZIZ K. NAHAS
Superintendent of
Buildings & Grounds

The Muses of an Engineer. — To embrace a star in all its naked loveliness, but remain mortal — to flame with the ensuing waves of cosmic fusion, but not disintegrate — to drink to capacity the soul satisfying peace of deathless space, but thirst for more — to have, but not possess — to be content, but not satisfied — to be for a few moments yet forever where the commonplace is fantastic and the fantastic is commonplace — to emerge from the cocoon of one's own civilization into an awareness of the world's accumulated culture — to know an experience so pregnant with promise that it is the music of the spheres, transcending all human mores — to learn that only that which is freely given and received is part of infinite harmony — to realize that the irresistible merging of the arts, sciences, philosophies and humanities has produced the professions — is to appreciate the full impact of the ethical practice of one's own profession in the service of humanity.—

C.K.W.

“For better it is to have a stout heart always and suffer one's share of evils, than to be ever fearing what may happen. — **“Herodotus”**”

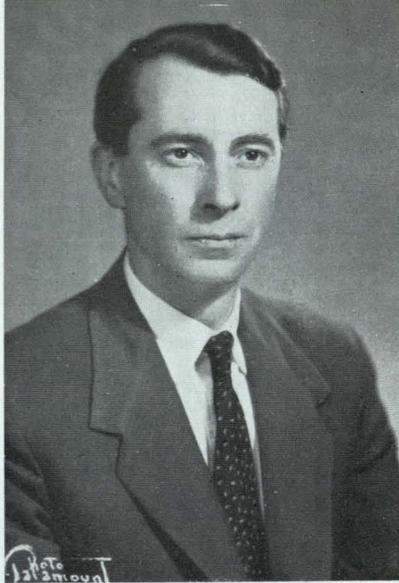


C. KEN WEIDNER

Dean of the Faculty of Engineering. Registered Professional Engineer, (Civil, Mechanical & Electrical). Professional Education by tutoring. Entered the Profession in 1925 on general, heavy, and railroad structures as Construction Foreman then as Estimator and Superintendent, then as Construction Engineer in charge. 1931 joined the Engineering Dept. of Boeing Aircraft Company as designer and liaison between design and manufacture. 1934 joined the Faculty of Whitman College as 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 in charge of a continuous design and construction program of buildings and utilities. Ordered to active duty as Lieutenant (Civil Engineers Corps) U. S. Navy in May 1941. Served in American Theater and Asiatic Pacific Theater, promoted through Lt. Commander and Commander to Captain, decorated twice with the Bronze Star. Released to inactive duty December 1946. Gold Medal for Distinguished Service Society of American Military Engineers 1946. Consulting Engineer and Professor, University of Oregon until November 1947 when appointed Chief Engineer in charge of design and construction of the Argonne National Nuclear Research Laboratory, University of Chicago. Upon completion of this assignment October 1951 appointed Dean, School of Engineering, A.U.B. Member: American Society of Civil Engineers, American Society of Mechanical Engineers, American Institute of Electrical Engineers, National Society of Professional Engineers, American Society of Heating and Air Conditioning Engineers, American Society of Engineering Education. Senior Member: American Society of Tool Engineers, Military Engineer Member, Society of American Military Engineers. Naval Member, American Society of Naval Engineers. Many other Professional and Scientific Societies.



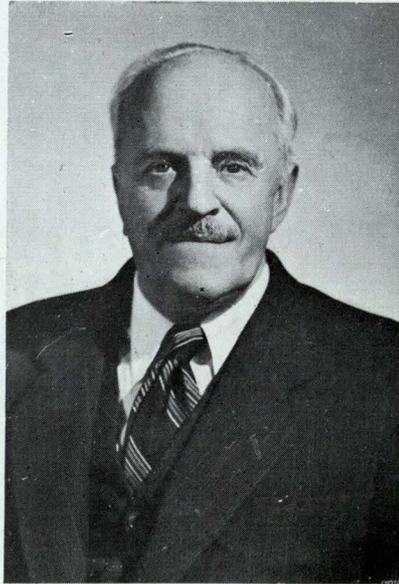
WALTER BAGGALEY



THOMAS G. BRIDGWOOD



EDWARD S. HOPE



IVAN A. RUBINSKY



ROBERT W. SLOANE

Instructing Staff

WALTER BAGGALEY

Professor of Mechanical Engineering. — Registered Professional Engineer. M.E. 1918 Stevens Institute of Technology. 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. 1920-21 Assistant Master Mechanic on hydroelectric 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, and Texas; five years building Atomic Energy Laboratories in Oak Ridge, Tennessee; Chicago, Illinois; Arco, Idaho and Denver, Colorado. Member: ASME ASHAE, AICHE; Cleveland Museum of Natural History, The Kirtland Geology Club, The Cleveland Natural Science Club, the Earth Science Club of Northern Illinois.

THOMAS G. BRIDGWOOD

Professor of Electrical Engineering — B. Sc. in EE (with Honours) 1936, Ph. D., 1943, University of Leeds. 1928-1932 Staff Apprenticeship, English Electric Co. Ltd. Bradford. 1936-1938 Part time Lecturer in Mechanics and Theory of Machines, College of Technology, Leeds. 1939-1941 section leader Research Engineer in Charge of high voltage research and development, General Electric Co., Ltd. Witton, Birmingham. 1941-1955 Lecturer in Electrical Engineering, University of Leeds, and consultant to local firms. Also Evening Lecturer in Electrical Engineering Courses at Walsall Technical College, Staffordshire, 1939-1941, and at the College of Technology, Leeds, 1944-1947. Examiner for Associate Membership Examination, Institute of Civil Engineers, 1945-1949. Honorary Secretary, North Midland Center, Institution of Electrical Engineers, 1950-1955. Did research into unstable behavior of electrical transformers associated with transmission lines. Published "Instability in Iron-Cored Circuits" in Proc. Leeds Phil. Soc. Corporate Member of the Institution of Electrical Engineers.

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. Summer 1926 Hydroelectric Investigation for the Grenfell Mission, Newfoundland. 1927-1928 Junior Assistant highway engineer, New York State. 1928-1931 Hydraulic Engineer, Emprezas Electricas Brasileiras, Rio De Janeiro, Brazil. 1932-1944 Superintendent of Buildings and Grounds, Howard University. 1944-1946, U.S. Navy, Public Works Officer, Lieutenant, Civil Engineer 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", "Labor Policies of Colleges and Universities" and on "How Howard University is training Power Plant Engineers". Member-National Technical Association, American Society for Engineering Education, American Society of Civil Engineers.

IVAN A. RUBINSKY

Professor of Engineering Sciences. — B.A., B.D. 1910 Kharkov Theological Seminary. Aeronautical Engineer 1915, Imperial Technical School of Moscow. Took part in construction of Bleriot Aeroplane and monorotor Helicopter with tail propeller 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 organiser, 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. 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 1932-1935. 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.



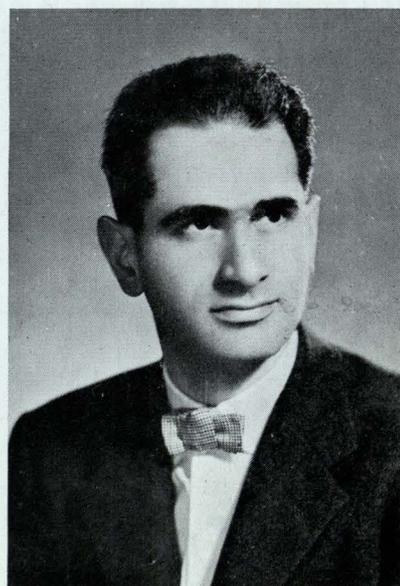
FADEL G. ANTIPPA



HAROLD W. BURKE



HERBERT H. FAIRFIELD



RAYMOND S. GHOSN



NICOLA E. MANASSAH

FADIL G. ANTIPPA

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 joining A.U.B. Faculty of Engineering in 1951. During that period developed laboratories for various applied physics and electrical engineering subjects including Heat and Thermodynamics, light, general electricity, and electrical machinery. 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, American Institute of Electrical Engineers.

HAROLD W. BURKE

Associate Professor of Engineering Sciences — B.S. in Geology 1948, M.S. 1952, Ph. D. 1953, Stanford University, California. 1942-1947 field mapping of Pre-Cambrian schist of East Coast, Palcozaic sediments of Montana, glacial geology of Illinois, Idaho Batholith, Ardmore Basin, Oklahoma, Kit Peninsula — Japan, Mesozoic and Tertiary sediments and volcanics of Okinawa, and a real mapping of Western Montana. 1948-49 U.S. Geological Survey on Tertiary Limestone stratigraphy of Saipan. 1949-53 Chief of Mariana Party, U.S. Geological Survey 1953-54 consultant on soil mechanics, ground water, and engineering geology in California. March-August 1954, Geologist for Harza Engineering Company on dam site reconnaissance in Jordan. Has several publications.

HERBERT H. FAIRFIELD

Associate Professor of Industrial Engineering — Diploma of Industrial Engineering 1937 from the General Motors Institute of Technology, Flint, Michigan. 1737-1940 worked with General Motors, Ontario, Canada as Assistant Metallurgist, and 1940-1946 in the Bureau of Mines, Ottawa, as Metallurgist. 1946-1948 with the H.W. Dietert Co. Detroit as a consulting Engineer. 1948, until joining the A.U.B. Faculty of Engineering in 1953, Chief Metallurgist with Wm. Kennedy & Sons, Ontario. Has published about 30 scientific and engineering articles and about 100 Bulletins of the Canadian Bureau of Mines. Member of AIMME, ASM, SFSA, AFS (Chairman of Committee on properties of molding material).

RAYMOND S. GHOSN

Associate Professor of Architecture and Structural Engineering — B.A. 1941, (A.U.B.), B.Sc. in C.E. with Distinction, 1945, (A.U.B.), S.M. in C.E. 1946, M.I.T., M. Arch. 1950, M.I.T., — Tau Beta Pi. 1941-1944 Draftsman, Designer, Assistant Field Engineer, Architectural Engineering Offices (Lebanon & 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, worked on the designing team of two buildings for Harvard University and Wellesley College; also Critic in charge of Fourth Year Architectural Design, Boston Architectural Center. At A.U.B. contributed the Architectural design of the Agriculture School, the Engineering Industrial Laboratories Buildings and the University Farm Buildings, Bekaa Valley. Recipient of Hussayn Bey Al Ahdab prize in Engineering (Beirut, 1945). Member ACI, Associate Member ASCE, Associate MSAA. Member Lebanese Order of Architects and Engineers.

NICOLAS E. MANASSAH

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, Engineering at A.U.B. Consultant to a number of firms. During the last three years has worked as Structural Engineer on a number of A.U.B. buildings, including the Agriculture School and the University Farm Project. Participated in the restudy of The Lebanese City Planning and Building Code. Associate Member ASCE, Member Lebanese Order of Architects and Engineers, Lebanese National Committee of World Engineering Congress.



IBRAHIM A. KHAIRALLAH



JACK G. NASSER



KHOSROV K. YERAMIAN



HAROUTUNE Y. KALAYAN



GARNET L. WEIDNER

IBRAHIM A. KHAIRALLAH

Lecturer in Engineering Law, Associate Professor — Counselor at law, M.A. 1910 A.U.B. Licencié des Droit 1916, Dijon University, France. L.L.B. 1927 Columbia University. Moslem Law at Al-Azhar in 1915 and 1916. Taught at A.U.B. 1904-1909. Admitted to the Bar in New York and Beirut, worked as Counselor at Law since 1915. Helped draft Domestic Relations and Personal Status Law for Protestant and other Christian communities in Lebanon. Started Lecturing at A.U.B. 1949. President, Lebanese Road Federation, Associated with International Road Federation. Awarded Order of Merit by Lebanese Government, awarded Order of the Cedar, Rank Officer, 1954.

JACK G. NASSER

Lecturer, — Associate Professor in Civil Engineering — Diplome d'Ingénieur Civil, 1938, E.S.I.B. Ingénieur-Docteur, 1948, Sorbonne (Paris University). 1938-1940 Field Engineer and Designer, Société d'Etudes et Travaux (Lebanon) for various public and private buildings. 1941-1945 Municipal Engineer, Tripoli. 1946-1948 Engineer, "Société d'Etudes considérée", Paris, in charge of design of Bridges, Reservoirs, Generating Stations, Industrial Plants, Hangars, etc. Since 1949 Private Practice, Consulting Engineer, Expert at the Courts; Reinforced Concrete design for various Public and Private Bldgs such as the Electric Generating Plants (Joz; El-Bared), the Alliance School, the Bechtel Engineering Bldg, A.U.B., the Lazarieh Bldg, Reservoirs for Public Works Ministry. 1950-1953 Chief of Design and Planning Section, Municipality of Beirut. Member of the Lebanese Order of Architects and Engineers and since 1950 member of its Scientific Commission.

KHOSROV K. YERAMIAN

Lecturer in Architectural Engineering, Associate Professor — B.A. 1927 (A.U.B.), B.Sc. in Civil Engineering 1930, Lafayette College, U.S.A. 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 teaching part time in A.U.B. while carrying on his practice in Architecture, Engineering, and Contracting in Lebanon and Syria. Over 280 completed projects to his credit covering the diverse fields of residential, industrial, educational, religious, and public buildings, examples of which are the B.C.W., Gerard Institute of Sidon, School of Nabattieh, Cathedral and Seminaries at Antelias, Sanatorium in Azounieh. Worked as Engineer and contractor on bridges, tunnels, buildings, and roads with the Public Works of the Lebanese Government. Member, Aley Municipal Council, Cabinet Member Lebanese Order of Architects and Engineers, Beirut.

HAROUTUNE Y. KALAYAN

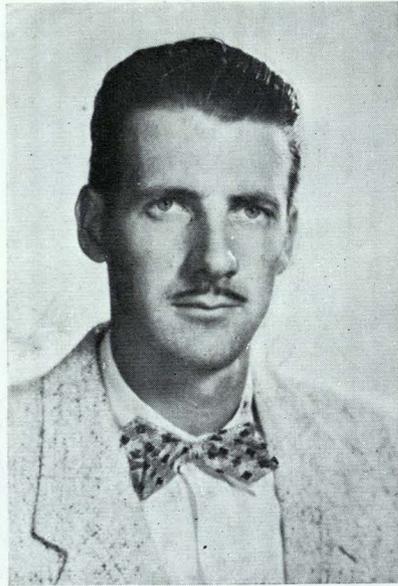
Lecturer in Architectural Engineering, Assistant Professor. — Engineer, Antiquity Dept., Republic of Lebanon. B.A. 1931, (A.U.B.), B.Sc. in Civil Engineering 1946, (A.U.B.). With Antiquity Dept. since 1932 except 1938-1942 when he taught at Melconian Educational Institute, Nicosia, Cyprus. 1935-1937 consolidation works on "Crac des Chevaliers". 1937-1938 excavations at Byblos. 1937 delegated to survey and identify on the map some old Roman villas west of Palmyra. Restoration and Consolidation of monuments of Crusaders Age at Tartous, Sahqoun, Sea Castle of Sidon, Beaufort, Djbeil, Tripoli and monuments of Roman Age at Lattaquieh, Baalbeck, Beyrouth, Niha, Kala'at Fakra, Bziza.

GARNET L. WEIDNER :

Lecturer in Fine Arts, Assistant Professor. — 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 the 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.



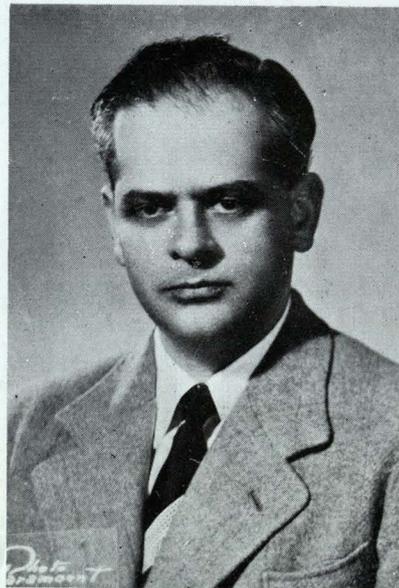
GEORGE ABI-RASHED



ALLEN C. COPE



FOUAD F. KHAZEN



KHALIL M. MALOUF



ROBERT W. PAGE

GEORGE ABI-RASHED

Assistant Professor in Mechanical Engineering — B.Sc. in Mechanical Engineering 1948 from ex-Fuad the First University, Egypt. 1948-1949 worked with the ESSO Company in Beirut as Mechanical Engineer for the design of service stations and the calibration of tanks. 1949-1954 in charge of the Mechanical Section at Tapline, Beirut, on projects including Heating, Ventilating, Air Conditioning, Hydraulics, Machine Design and selection. Member in the Lebanese Order of Architects and Engineers (Alternate member in its Disciplinary Committee for 1954). Worshipful Master of George Washington Lodge 1953-1954. Junior Member, ASHAE. Chess player, winner of the Syrian Bank Club Cup 1952.

ALLEN C. COPE

Assistant Professor of Industrial Engineering and Master of Architectural Shops, — Diploma 1945 Interior Decoration and Painting from the Williamson Free School of Mechanical Trades. B.S. 1951, from the State Teachers College Kutztown, Penn. 1951-1953 Art Teacher and supervisor Boyertown Joint High School, Pennsylvania. Member of the National Art Education Association, National Education Association of U.S., Eastern Arts Association Berks county (Pennsylvania), Art Education Association and Pennsylvania Education Association.

FOUAD F. KHAZEN

Assistant Professor in Civil Engineering — B.A. Engineering 1932, (A.U.B.). A.M.I.C.E. London 1945; (Chartered Civil Engineer). 1933-1936 surveyor, draftsman and designer with the Public Works Dept., Palestine. 1936-1948 Foreman of works, designer, and Assistant Engineer with the Public Works Dept., 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. Member, Lebanese Order of Architects and Engineers.

KHALIL M. MALOUF

Assistant Professor of Civil Engineering — B.A. 1941, (A.U.B.) B.Sc. in C.E. 1945, (A.U.B.) Ph.D. (Hydraulics) 1950, Imperial College of Science and Technology, London University, Prior to joining A.U.B. Faculty of Engineering, Instructor at A.U.B., and acting assistant Oil Movement Controller, I.P.C. Tripoli.

ROBERT W. PAGE

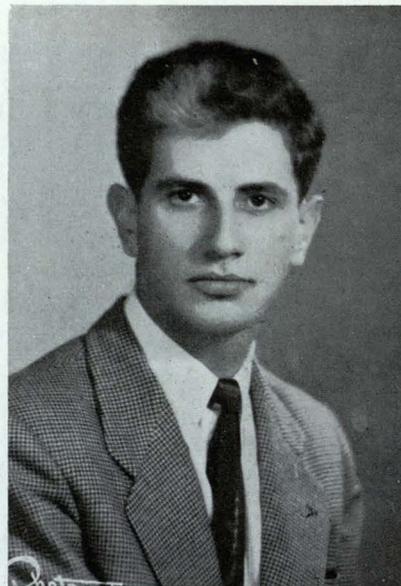
Assistant Professor of Architectural Engineering — B.Sc. Architectural Engineering 1950 Texas A. & M. 1944-46 U.S. Navy, Pacific Theater. 1950-1952 U.S. Government classified Engineer. 1952-1953 Engineer and designer, O'Rourke Construction Co., designed the first Tilt Up Wall Building in Southwest. 1953, until joining A.U.B. Faculty in September, Architect and Chief Engineer with William's and Wagner Construction Co., on the General Foods Buildings, and Southern Express Buildings, Dallas. First President of Junior Associated General Contractors, Student Life at Texas A. & M. Vice President of Junior American Institute of Architects. Active Boy Scout Work. Member: ACI, SAME. Associate AIA, Junior Member ASCE.



MOHAMAD ALI ANSARI



YEGHISHE M. AVEDISSIAN



ANIS N. DAGHER

MOHAMAD ALI ANSARI

Instructor in Civil Engineering—B.S. with distinction, 1949, Engineering College Baghdad, Iraq. Master of Science, Majoring in Structures, 1952, University of Kansas. 1949-1950 worked in the Public Works Dept., Baghdad, as Technical Supervisor of Civil Engineering Works for highways. Worked as a Civil Engineer in the Bridge Dept. of the Kansas State Highway Commission, U.S.A. 1952-1953, until joining A.U.B. Faculty of Engineering, Engineer in charge at the construction of the Royal Palace, Baghdad, with the C.A.T. Company.

YEGHISHE M. AVEDISSIAN

Instructor in Civil 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 Head Master of American School for Boys, Baghdad. 1951-1952 until joining A.U.B. Faculty of Engineering, worked as Laboratory Assistant, Junior Driller, Assistant Cements Engineer, and Drilling Statistician with Basrah Petroleum Co., Iraq. Has several publications including "Holiday for Tears", a novel published in New York, 1950. Member of Pi Epsilon Tau, (Honorary Petroleum Engineers' Society).

ANIS N. DAGHER

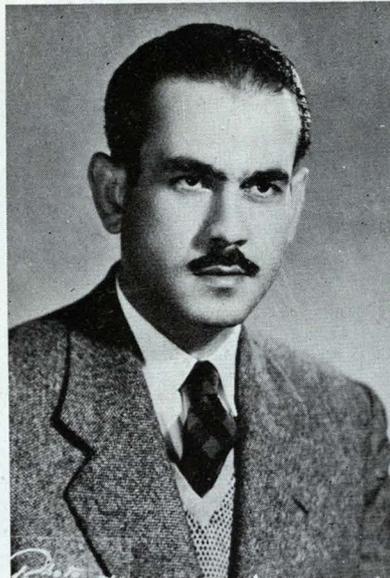
Instructor in Mechanical Engineering — B.A., 1951 in Biology and Chemistry A.U.B.; B.Sc. 1954 in Chemical Engineering, University of Texas (Austin). Junior member, American Institute of Chemical Engineers.



NAJI DEEB



SULAYMAN D. DEEB



SAMIR R. EL-KHURI

NAJI DEEB

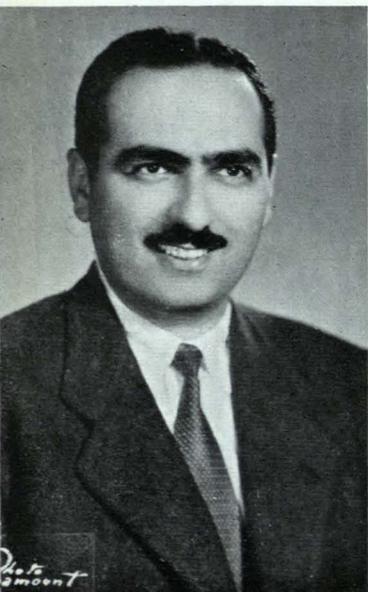
Instructor in Engineering — B.A. 1940 (A.U.B.), B.Sc. in Electrical Engineering, 1948, University of Louisville, U.S.A., 1951-1952 took graduate courses St. Louis University. 1940-1943 Instructor Beer Zeit College, Palestine. 1943-1944 Instructor Friends' College, Ramallah, Palestine. 1944-1946 Director Aley National College. 1948-1950 private practice in Electricity, Beirut. 1950 worked for the Ministry of Economy of Lebanon as Electrical Engineer. 1952-1953, until joining the A.U.B. Faculty of Engineering, consultant engineer to various companies.

SULAYMAN D. DEEB

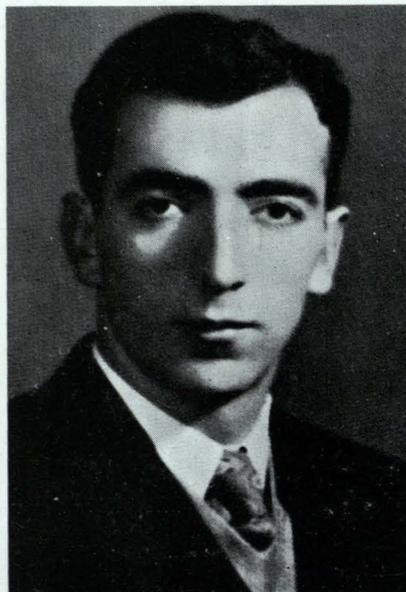
Instructor in Mechanical Engineering — B.A. in Engineering, 1932 (A.U.B.). B.Sc. in Mechanical Engineering, Birmingham University, England, 1949. Trained in Refrigeration with J. & E. Hall, Dartford. and in Diesel Engines with Ruston and Hornsby, Lincoln. Lincolnshire, 1949-1950. Worked as a Mechanical Engineer 1951-1954 with Tapline in Beirut. Member Lebanese Order of Architects and Engineers.

SAMIR R. EL-KHURI

Instructor in Civil Engineering — B.Sc. in C.E. 1948 American University of Beirut; M.S.C.E. 1952, Lehigh University U.S.A. 1948-1951 worked with the Municipality of Damascus as Civil Engineer, later appointed Assistant Chief in the Department of Works. During summer of 1952 worked in drafting and design of Bridges for D.B. Steinman, New York City. 1952-1953 was drafted in the Syrian army as first lieutenant engineer



RAJA A. ILIYA



KANAAN KANO



BENJAMIN K. YOTNAKHPARIAN



LAURENCE C. GRAND

RAJA A. ILIYA

Instructor in Civil Engineering — B.A. Engineering 1947, A.U.B.; M.S.C.E. 1949 University of Texas, (Austin). 1949 joined Engineering Division of Tapline, Beirut, worked on various assignments including the survey of the pipe line right of way and its hydrostatic testing, soundings for submarine loading lines, Zahrani Terminal, and oil dispatching. 1952 until joining Faculty of Engineering at A.U.B. in charge of structural group of the Engineering and Construction Division at Tapline, Beirut. Member: A.C.I. and the Lebanese Order of Architects and Engineers.

KANAAN KANO

Instructor in Engineering. — B.E.E. 1952, Rensselaer Polytechnic Institute, M. Sc. 1953 University of Illinois. 1952-1953 half time teaching assistant at the Electrical Laboratories in the University of Illinois. Student member of the American Institute of Electrical Engineers. Is on military leave with Syrian Army beginning January 1955.

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 until joining the Faculty of Engineering at A.U.B., worked in the Lancashire Dynamo and Crypto (Mfg.) Ltd. at Manchester, England, on the construction of many kinds of rotating machines ranging from 0.2 KVA to 3000 KVA and from 110 volts to 11,000 volts. Representative of the College Apprentices at the Lancashire Dynamo and Crypto.

LAURENCE C. GRAND

Graduate Fellow in the Engineering Science and Service Laboratories — B.A. (Natural Sciences Tripos Part I) Trinity College, Cambridge, Great Britain.

“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



HENRY W. BUCK



HANS C. FRIIS



RAMEZ A. SAAB

HENRY W. BUCK

Master in the Machine Shops. Tool and Die Shop, Internal Combustion Engine and Equipment Shop, Operating Mechanical Engineer — Graduate, American School of Trades. 1919 studied Mechanical Engineering at University of Idaho. Commercial Pilot's License, 1937, Packard Flying School. 1950-1951 graduated from Chrysler Corporation Export Technical Training School and Electric Autolite Technical Training School, Ohio. 1921-1923 in charge of transportation and mechanical repair of the Foundation Company of America. 1923-1929 served apprenticeship under Mr. A. Dussenberg on Engine Design, 1929-1932 owned and operated shop for construction of racing cars for police work, 1932-1935 in charge of transport and repair of idle U.S. Army equipment, 1935-1937 Master Mechanic of Large Cartage and Transportation, 1937-1941 pilot of Military Aircraft and with Flying Tigers in Burma and China. 1941-1944 worked on production of Military Aircraft and Equipment. 1944-1947 Foreman in charge of Tool Makers and Machine Builders. 1947-1949 Service Manager of Cadillac Motor Car Company. 1950-1953 Middle East Technical Director for the Chrysler Corporation, Export Division. Member: American Technical Society of Automotive Engineers, Tool & Die Craftsmen Association, Society of American Military Engineers.

HANS C. FRIIS

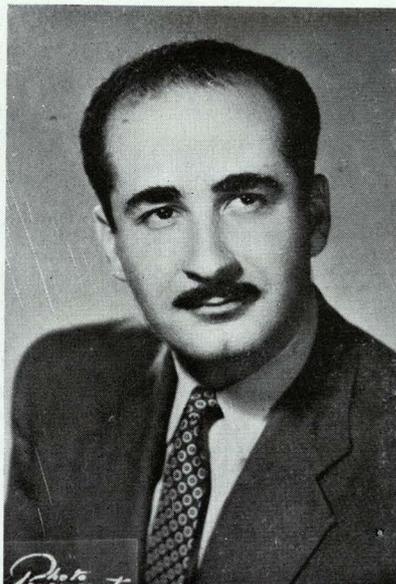
Master in the General Shops — 1949-1951 attended the School for Contractors, Sonderborg, Denmark, and graduated from the Engineering College at Horsens, Denmark, in 1953. During World War II joined the British Army's Security Section. 1943-1945 worked as a joiner at H. Sehestedt — Tonder, Denmark; later did the same job at Carl Trap, Sonderborg and at Sala, Sweden. 1947 worked at Car Holtz Marstetten, Switzerland.

RAMEZ A. SAAB

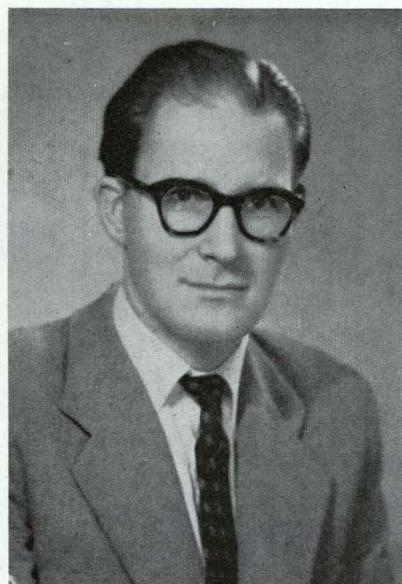
Master in Electrical Shops, Operating Electrical Engineer of the Generating Plant — B.S. in Electrical Engineering 1942, Oklahoma University A. & M. 1942-1946 U.S. Army. 1946-1952 owned and operated an electrical engineering and contracting business in the U.S. 1952-1953 American University of Beirut, in charge of electrical installations in new buildings. Published an article on the possibility of Use of Electrical Power in Early Historical Periods. Member AIEE, Engineers Society, HKN Electrical Engineers Honorary Fraternity, Mathematics Honorary Fraternity.



HALIM D. KHAMMAR



ADEEB F. MOUSSA



PIERRE N. MULLER

HALIM D. KHAMMAR

Junior Master in the Mechanical Shop — 1928-1937 attended the Schneller High School, Jerusalem, Palestine. 1937-1953 worked on operations on all types of machines at the I.P.C. Central workshop. Was in charge of a machine shop and other shops. Worked on metal spraying, pumps, and engines (Petrol and Diesel).

ADEEB F. MOUSSA

Junior Master in the Electrical Shops — Has Diplomas in Electrical Specialization from Ecole des Arts et Metiers, Beirut, and E.M.I. Institute, England. 1946-1948 worked as electrician at I.P.C., 1948-1953 became foreman of I.P.C. Electrical Shop in Jordan and Tripoli.

PIERRE N. MULLER

Junior Master of General Shops — 1939-1941 Apprentice in Carpentry at Hermann Dossecker, Zurich, and attended the Technical Night School. 1941-1946 Journeyman, Carpenter. 1946-1952 worked at the Schauspiel-Haus theater, Zurich, as Set Designer and stage Decorator. Attended Art School of Zurich. Exhibition Designer at Izmir International Fair, Turkey, 1953, and Damascus International Fair, Syria, 1954.

a charge to the class of 1955

C. Ken Weidner, *dean*

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

After four years of intimate association in the early evolutionary period of our School, we come to the day when we of the faculty and the profession admit you, the first class to be with us the full time, to your degree and to junior membership in our profession.

You have every right to be proud of the fact that you have weathered the last four years and were judged fit at the end. We of the faculty have been relentless in forcing you to meet the standards required by our profession. By meeting them and going on into the "Second Mile" you have earned the right to stand as men from whom humanity can confidently expect true service.

Having arrived at this point of beginning you are now ready to start building your careers of service. If you pay proper attention to the higher values as set forth in the Oath and the Canons of Ethics and prosecute your work with intelligence and vigor, you will one day be regarded as engineers.

But you must keep all things in proper perspective. The retention of a proper perspective will depend on how well you develop your ability, to perceive what you see, comprehend what you learn, and tolerate what you do not understand. Without this last quality all else is in vain.

You may and should be intolerant of all things which are basically false or unjust — but you must always be tolerant of that which you do not understand or that which is based on belief or opinion different from your own. Your beliefs or opinions may not be any nearer the truth than those to which you take exception. So avoid playing the bigot at all times,

From tolerance springs the basis for all cooperation between men and groups. Without tolerance, superstition, distrust and all the other social ills of mankind develop to prevent progress of [any kind. Cooperation with those you like and who like you does not require tolerance. It is when, for the good of all concerned, you must cooperate with those whom you neither like nor understand, that tolerance is a necessity. There is an old story about two very close friends who were discussing the peculiarities of the human race. One said "All people are queer but you and me, and sometimes I think you too a little queer". This no doubt applies to all of us.

It is natural to dislike and suspect people and things which are foreign to you. It is far easier to condemn what you do not understand than to make the effort to understand. To develop tolerance you must be willing to withhold judgment and to disregard prejudice and emotion. When you can do this you are on the way to developing a proper perspective. This proper perspective will enable you to remain objective about your professional work and keep personal problems out of it. It will enable you to earn the respect of those with whom you associate.

It is pleasant to be liked but it is vital that you be respected by all. Popularity is a fickle blessing — seek it not — neither seek notoriety — a respected professional man has no need for such trappings.

Be careful not to let your success to date go to your head and give you a false sense of importance. In your career ahead you must remember that until you conceive original work, all that you have has been developed by others and passed on to you. Modesty is the handmaid of good practice. Regardless of how far you progress there will always be farther to go than you will have come, and there will always be others above you to direct you and below you anxious to replace you. So never get the idea that you are indispensable or that you have succeeded — it would be fatal.

Do not strive for a "successful" career. Strive for a career which is satisfactory. Your ethical and professional conscience will inform you of the degree of satisfaction you deserve from your work. Be content with making it completely satisfactory. Time will then determine the degree of your "success".

Finally I say to you — when you are troubled or confused, remember our discussions about taking the real man out of the physical man so that the real man can function. As you know, meditation in the presence of good music, literature and the other cultural arts or the contemplation of the stars, the sea, the mountains or the desert, all help release the real man from his physical subjective bondage. Released, the confusion and turmoil will fall away from him and the truth about the basic problem will become apparent.

The future of the civilized world is in the hands of your generation. As Engineers you must participate in the leadership of your generation. Make it possible for time to record your participation a "success"!

"God be with you and bring success to your worthy efforts."

« اخذ الله بيدكم و كليل جهودكم بالنجاح »

THE STUDENTS





fourth year engineering

candidates to the B.C.E.



laurent khayat
Aleppo, Syria



mukhtar malas
Beirut, Lebanon



michel abu-jawdah
Jourat El-Ballout, Lebanon



kanan muyassar
Aleppo, Syria



mounir halabi
Shweir, Lebanon



majid jishi
Bahrain



hratch papazian
Baghdad, Iraq
E.S.S. (President)



william samman
Homs, Syria



said shammās
Homs, Syria



rafik samaha
Al-Jwar, Lebanon

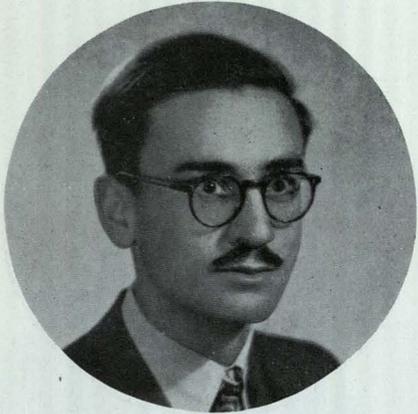


robert sarkis
Latakia, Syria



wadi' tawk
Homs, Syria

candidates to the B.M.E.



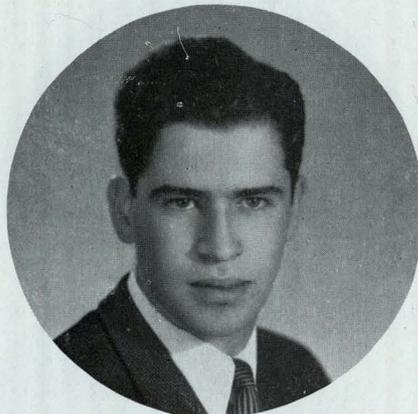
nabil abdul-karim
Beirut, Lebanon
ESS Vice-President



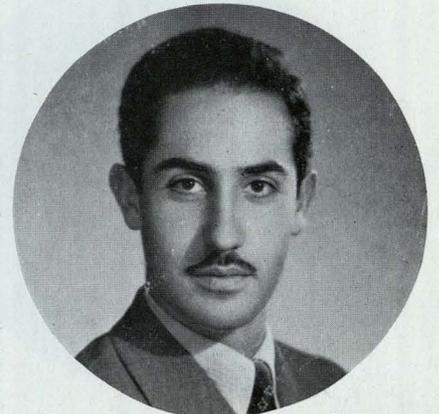
muhamad wa'il dajani
Jaffa, Palestine



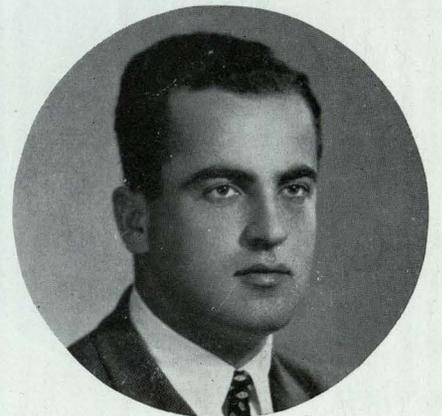
roger chehiré
Paris, France



hisham dajani
Jerusalem, Palestine
Engineering & Varsity
Football Teams



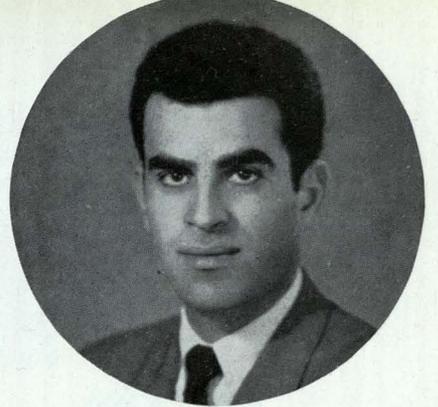
shawki freiha
Brummana, Lebanon



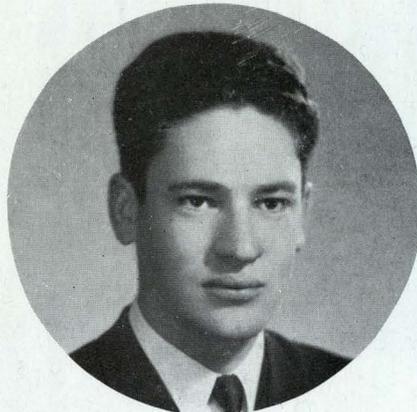
antoine gemayel
Ain Al Kharoubé, Lebanon



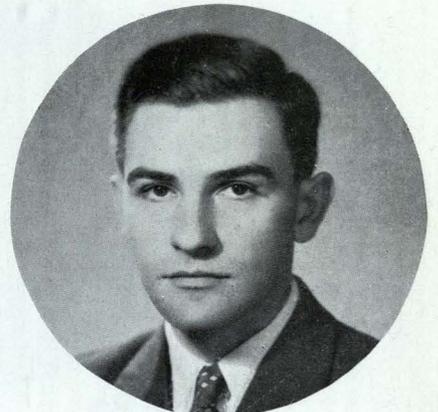
vasken najarian
Beirut, Lebanon



youssif rishani
Shweifat, Lebanon



khalil nubani
Jaffa, Palestine



vahé yacoubian
Beirut, Lebanon



wahib hamzeh
Abey, Lebanon



gilbert mish'alani
Beirut, Lebanon



daniel shidrawi B.A., B. Sc.
Hadath el Jobbeh, Lebanon

candidates to the B.E.E.



umar dabbagh
Jaffa, Palestine



ali alamuddin
Baakline, Lebanon
AUB Fencing Manager and Champion



victor bankoul
Addis Ababa, Ethiopia

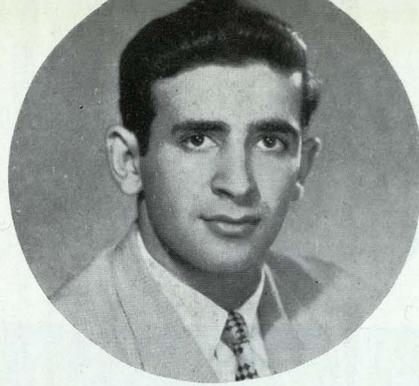


albert sarrafian
Beirut, Lebanon

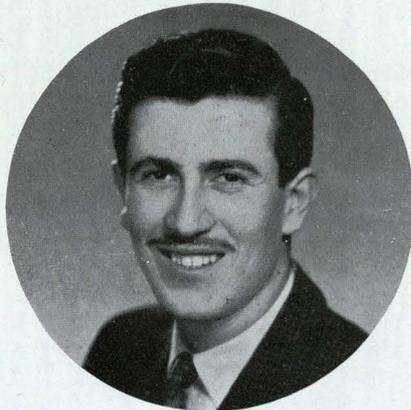


nicolas shamma
Baalbeck, Lebanon
E.S.S. cabinet (secretary)

candidates to the B.A.E.



varoujan azadian
Beirut, Lebanon
Engineering Basketball Team Captain
International Basketball Player



nabih majdalani
Haifa, Palestine



riad maliki
Damascus, Syria
Engineering Basketball Team

third year engineering



CIVIL

BACK ROW. LEFT TO RIGHT
khayrallah lubbus
Safita, Syria
munir bulus
Haifa, Palestine
 Engineering Football Team
sahag toutjian
Beirut, Lebanon
yenovk balikian
Alexandrette, Turkey
jean zaydan
Jedeidat el-Matin, Lebanon

MIDDLE ROW. LEFT TO RIGHT
haroutune markarian
Aleppo, Syria
 Engineering and Varsity
 Football Teams
george nasr
Hamat, Lebanon
hrair mouradian
Aleppo, Syria

FRONT ROW. LEFT TO RIGHT
vahé bakjejian
Beirut, Lebanon
fuad abu-nasr
Beirut, Lebanon
 E.S.S. Cabinet (Assoc.
 Secretary)
fuad nuwaysir
Haifa, Palestine
emile fares
Mreijat, Lebanon
nazim hashwi
Homs, Syria
najim azar
Kab-Elias, Lebanon
vahan piranian
Beirut, Lebanon

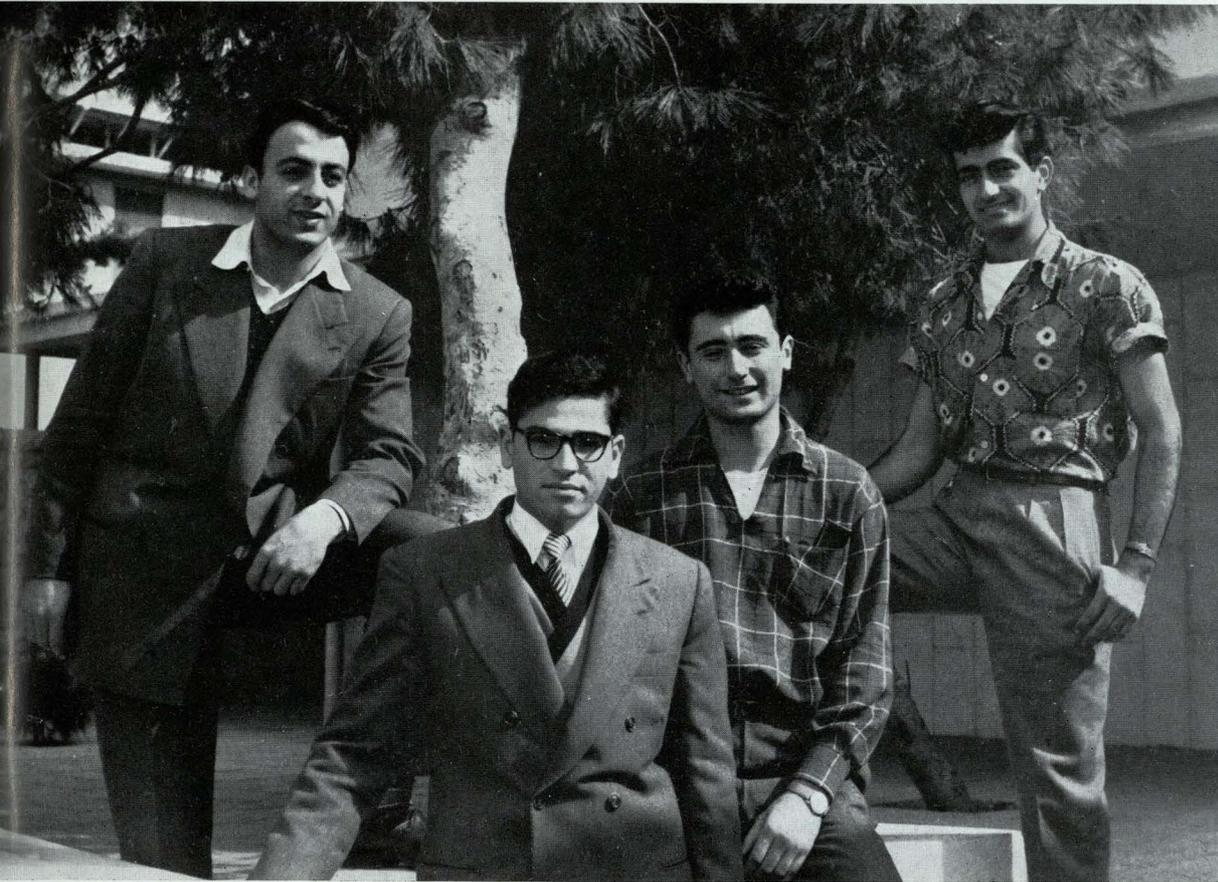


MECHANICAL

BACK ROW. LEFT TO RIGHT
françois buwairi
Djounie, Lebanon
emile jiha
Bishmizzine, Lebanon

MIDDLE ROW. LEFT TO RIGHT
edward naman
Haifa, Palestine
george zakhim
Diddeh-Kura, Lebanon
 Engineering Volleyball Team
salahuddin hashash
Beirut, Lebanon
yusuf matta
Burj-el-Barajneh, Lebanon
izzudin habib
Tripoli, Lebanon
 Engineering Volleyball Team
talal afifi
Jaffa, Palestine

FRONT ROW. LEFT TO RIGHT
tarek kabbarah
Tripoli, Lebanon
ilyas abu-saba
Mich-Mich, Lebanon
hovhannes kulajian
Aleppo, Syria
mikhael shahin
Kaftour-Kura, Lebanon
ajaj abul-husn
Bitickney, Lebanon



ELECTRICAL

LEFT TO RIGHT

sami kurban

Dhour Shweir, Lebanon
International Volleyball
Player

faysal kublawi

Acre, Palestine

faruk midani

Damascus, Syria
International Basketball
Player

khalid al-musfi

Baakline, Lebanon



ARCHITECTURE

BACK ROW, LEFT TO RIGHT

victor shiber

Jerusalem, Palestine
Varsity and Engineering
Football Teams

wafiq adada

Beirut, Lebanon

avedis guiragossian

Beirut, Lebanon

ibrahim resek

Haifa, Palestine

charles zakhariya

Jerusalem, Palestine

MIDDLE ROW, LEFT TO RIGHT

nadim bulus

Kura, Lebanon
ESS Cabinet, (Treasurer)

charles haddad

Jaffa, Palestine

george ayyub

Haifa, Palestine

Varsity and Engineering
Basketball Teams

faruk ghorayyib

Amman, Jordan

marcel f. sawaya

Damascus, Syria

ara bilezikjian

Beirut, Lebanon

hagop kitabjian

Aleppo, Syria

second year engineering



STANDING. LEFT TO RIGHT
usamah bayazid
Damascus, Syria
edward rabbat
Damascus, Syria
mubadda suwaydan
Haifa, Palestine
 Engineering OUTLOOK Re-
 porter. ESS Cabinet Member
basil hakki
Damascus, Syria
zaven yazejian
Beirut, Lebanon
berj manoukian
Beirut, Lebanon
charles sifri
Jerusalem, Palestine
nader hakimi
Kabul, Afghanistan
makram dumit
Haifa, Palestine

SITTING. LEFT TO RIGHT
edward boury
Jaffa, Palestine
adib talmasani
Beirut, Lebanon
mansur bardawil
Acre, Palestine
antun jurjus
Douma, Lebanon
fuad nasr
Hamat, Lebanon
ma'mun jazzar
Aleppo, Syria



STANDING. LEFT TO RIGHT
sakr fakhri
Zarariah, Lebanon
bernard hadidian
Beirut, Lebanon
bedros adjemian
Aleppo, Syria
mikaeli youssoufian
Beirut, Lebanon
 Engineering Basketball Team
fawzi jirmanous
Jerusalem, Palestine
farid doumani
Damascus, Syria
 Lodge Vice President
marwan malki
Damascus, Syria
 International Basketball
 Player
usama barudi
Hama, Syria

SITTING. LEFT TO RIGHT
vahé derkhoreinian
Beirut, Lebanon
hrait missirian
Beirut, Lebanon
john kettaneh
Jaffa, Palestine
georgios mestanas
Athienou Larnaca, Cyprus



STANDING. LEFT TO RIGHT

afif jeha
Bishmizzine, Lebanon
 issam az-zayn
Sidon, Lebanon
 henry jureidini
Beirut, Lebanon
 ahmed kalash
Sidon, Lebanon
 michel khodr
Beirut, Lebanon
 theodosios trochalakis
Jerusalem, Palestine
 guy kilzi
Beirut, Lebanon
 abdul-ghani abu-kura
Amman, Jordan
 albert sifri
Jaffa, Palestine

MIDDLE ROW. LEFT TO RIGHT

raoul mizrahi
Damascus, Syria
 gabriel matta
Aleppo, Syria
 mohammad jardaneh
Amman, Jordan
 albert srouji
Jaffa, Palestine
 varoujan mangassarian
Beirut, Lebanon
 raja shehfah
Damascus, Syria

FRONT ROW. LEFT TO RIGHT

zahi rashid
Merj-Oyoune, Lebanon
 abdallah said
Damascus, Syria
 adel saad
Beirut, Lebanon

STANDING. LEFT TO RIGHT

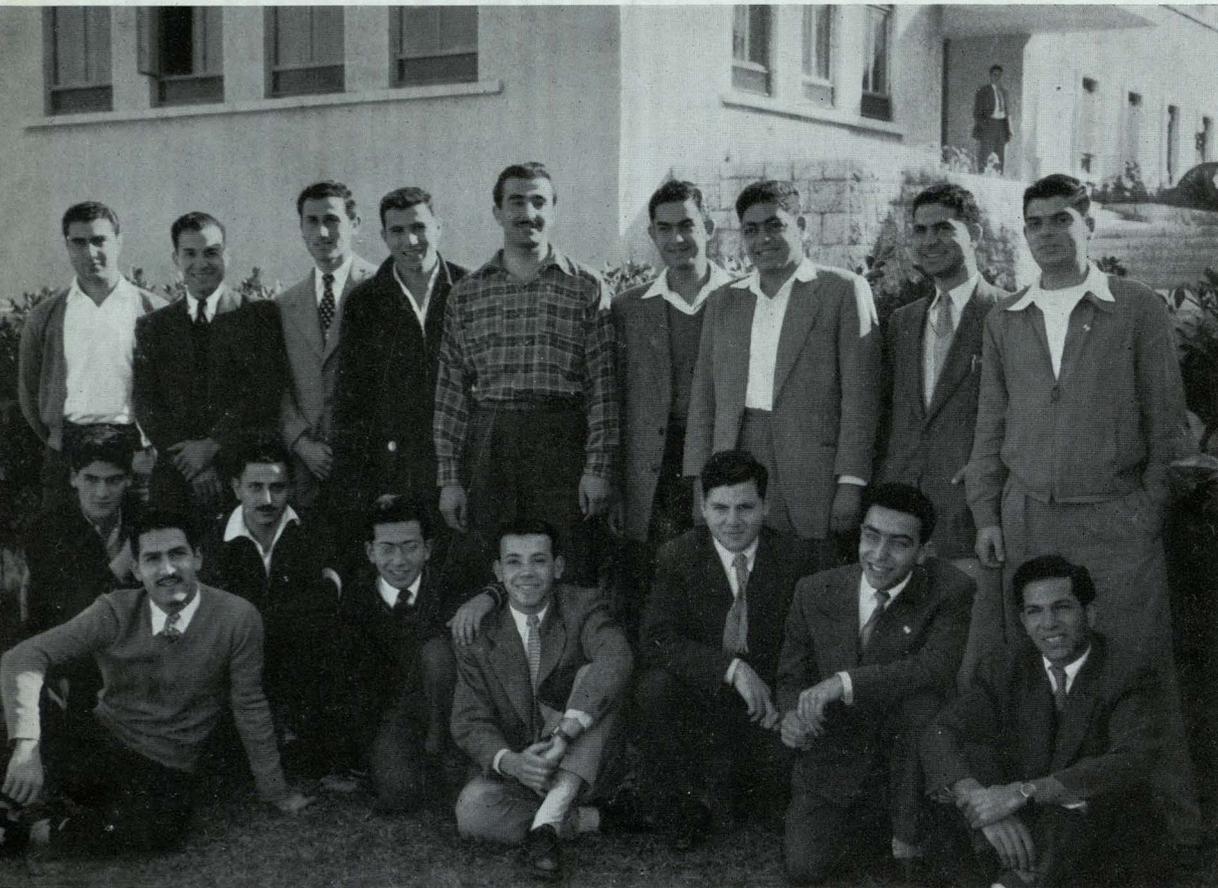
nabeeh khoury
Jerusalem, Palestine
 samir abu-rahmah
Haifa, Palestine
 ghassan khabbaz
Khartoum, Soudan
 kameel shabb
Sidon, Lebanon
 Engineering Basketball Team
 khalid al-yashruti
Acre, Palestine
 mustafa abdul-rahim
Jaffa, Palestine
 muhammad khaled
Jaffa, Palestine
 Engineering Football Team
 garbis keshishian
Alexandrette, Turkey
 Engineering Volleyball Team
 marwan atiyeh
Bayno, Lebanon
 michel awwad
Agnascalientes, Mexico
 ESS Cabinet Member
 riad salamoun
Beirut, Lebanon

SITTING. LEFT TO RIGHT

karnik shahinian
Beirut, Lebanon
 parounag maljian
Beirut, Lebanon
 onig sinanian
Beirut, Lebanon
 fuad sallum
Homs, Syria
 zaki shammass
Jerusalem, Palestine
 Varsity and Engineering
 Football Teams
 george katul (B.A.)
Jerusalem, Palestine
 ilyas mansour
Beirut, Lebanon



first year engineering



FRONT ROW. LEFT TO RIGHT

nadim sayegh
Zahlé, Lebanon
joseph safar
Beirut, Lebanon
sami abbud-klink
Bikfaya, Lebanon
albert hazbun
Amman, Jordan
suhayl bathish
Nazareth, Palestine
diran srabian
Beirut, Lebanon
antoine aftimos
Sidon, Lebanon
maaz shukayr
Amman, Jordan

BACK ROW. LEFT TO RIGHT

hrant khatchadourian
Khartoum, Soudan
ma'adh khayri
Ramleh, Palestine
abdul-masih batri
Aleppo, Syria
edward abadjian
Shemlan, Lebanon
samir nassif
Teheran, Iran
berj kalaidjian
Beirut, Lebanon
samir tawil
Beirut, Lebanon
bisharah murr
Haifa, Palestine
zahi haddad
Beirut, Lebanon



FRONT ROW. LEFT TO RIGHT

naim nasir
Acre, Palestine
michel hilou
Safita, Syria
fawzi ka'wash
Meirun, Palestine
cnel touryan
Beirut, Lebanon
fayek tutunji
Amman, Jordan
garbis svadjian
Beirut, Lebanon

BACK ROW. LEFT TO RIGHT

haig kasparian
Aley, Lebanon
shahé israbian
Beirut, Lebanon
yusuf hayek
Jaffa, Palestine
nazareth karacashian
Beirut, Lebanon
sarkis demirjian
Aleppo, Syria
anis gedeon
Bassa, Palestine
michel achdjian
Beirut, Lebanon
ruhi sharif
Nablus, Palestine

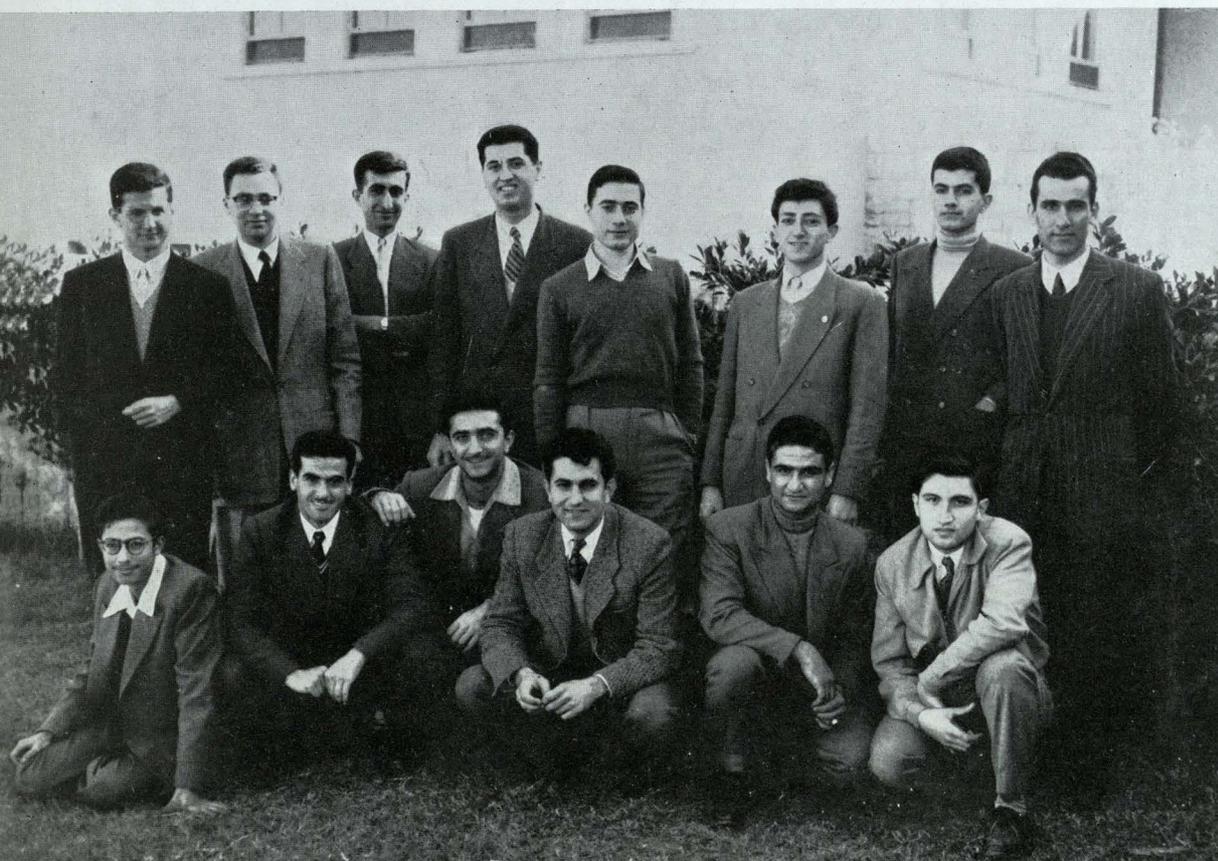


STANDING LEFT TO RIGHT

- yusuf hubayka
Tripoli, Lebanon
- fawzi saba
Kafarmatta, Lebanon
- samir zaynun
Zalka, El-Matn, Lebanon
- joseph kallaby
Baghdad, Iraq
- faddul shwayri
Beirut, Lebanon
- shamel ayntrazi
Ain Anoub, Lebanon

SITTING. LEFT TO RIGHT

- jule iskander
Nazareth, Palestine
- gilbert saikali
Beirut, Lebanon
- edward kur'an
Beino, Akkar, Lebanon
- raif shami
Sidon, Lebanon
- sabah abi hanna
Hamat, Lebanon



BACK ROW. LEFT TO RIGHT

- joseph bachir
Beirut, Lebanon
- mohammad amin bohali
Beirut, Lebanon
- kevork toroyan
Zahleh, Lebanon
- munther bsat
Sidon, Lebanon
- guido garguilo
Jaffa, Palestine
- rené tactac
Beit Mallat, Lebanon
- carol khouri
Beirut, Lebanon
- matheos mahshikian
Alexandrette, Turkey

SITTING. LEFT TO RIGHT

- hatim ghunaym
Jaffa, Palestine
- towfik khatib
Nablus, Palestine
- elias mazeji
Beirut, Lebanon
- abdul-razzak mansour
Tartous, Syria
- kevork karajerian
Aleppo, Syria
- antranig sinanian
Alexandrette, Turkey

AMERICAN UNIVERSITY OF BEIRUT

BE IT KNOWN THAT
HAVING IMPRESSED THE FACULTY OF THE
SCHOOL OF ENGINEERING
WITH HIS PROFESSIONAL POTENTIALITIES INCLUDING
SCHOLARSHIP AND CHARACTER

IS HEREBY GRANTED
ENGINEERING HONORS
AND IS AWARDED THIS CERTIFICATE
AND EMBLEM IN EVIDENCE THEREOF

GIVEN AT BEIRUT, LEBANON
THIS DAY
OF 19

Chairman of Honors Committee
Dean of School of Engineering

ENGINEERING HONORS

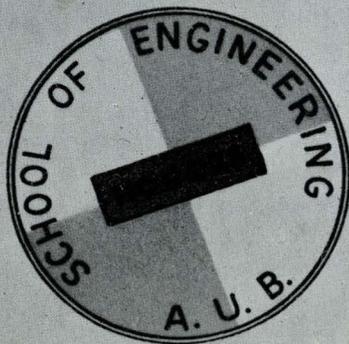
In the year 1951-52 the Faculty of Engineering has established an Honors award to be conferred on Final Year Engineering students "in recognition of outstanding achievement and as an encouragement to sustained effort towards high scholarship and character development. In this instance, scholarship is 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 honors 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 a confirmation of the successful termination of probation. The emblem then becomes the unqualified personal property of the recipient.

This year Mr. Hratch Papazian, candidate to the B.C.E. has been selected to receive the award at graduation time.



The 1955 recipient

THE
ENGINEERING STUDENT SOCIETY
AND ITS ACTIVITIES



members of the cabinet

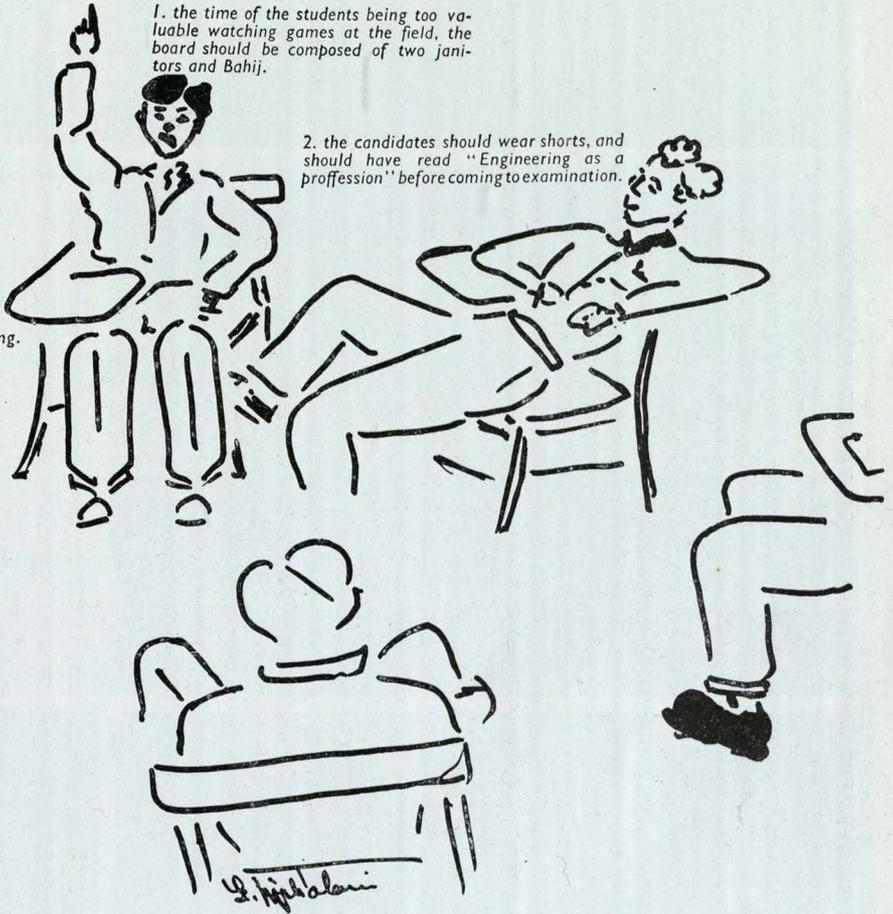
president : hratch papazian
vice-president : nabil abdul karim
secretary : nicolas shamma
treasurer : nadim bulus
associate secretary : fuad abu nasr
members : michel awwad
 mubadda suwaydan

President : Gentlemen; today we are going to set the regulations for the coming faculty comprehensive.
 As you know, only those faculty people who have shown relatively good character and extra-curricular activities such as, folk dancing . . . milk bar conferences . . . driving secretaries home . . . etc . . . will be allowed to take this decisive comprehensive. Any suggestions as to regulations ??



1. the time of the students being too valuable watching games at the field, the board should be composed of two janitors and Bahij.

2. the candidates should wear shorts, and should have read "Engineering as a profession" before coming to examination.

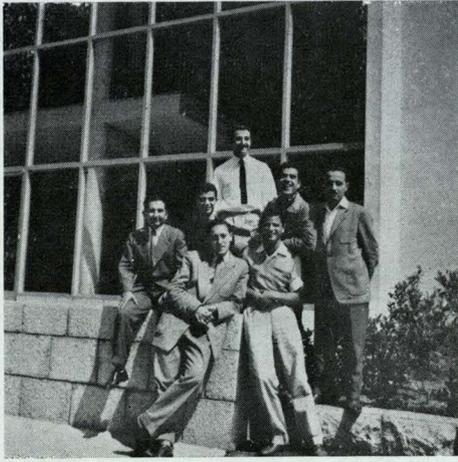


3. Great ! great ! we'll watch something.

N. Majdalani

THE TARGET BALL COMMITTEE

Nabih Majdalani, Ilyas Mansour, Gabriel Matta, Khaled Musfi, Samir Nassif Issa, Ibrahim Resek, Youssif Rishani, Joseph Safar, Nicolas Shamma, Mubadda Suwaydan, Charles Zakhariya. (left photo)



THE TARGET SHOW COMMITTEE

Michel Awwad, Nadim Bulus, Zahi Haddad, Bernard Hadidian, Samir Nassif Issa, Ibrahim Resek, Youssif Rishani, Albert Sarrafian, Marcel Sawaya. (right photo)





general knowledge contests

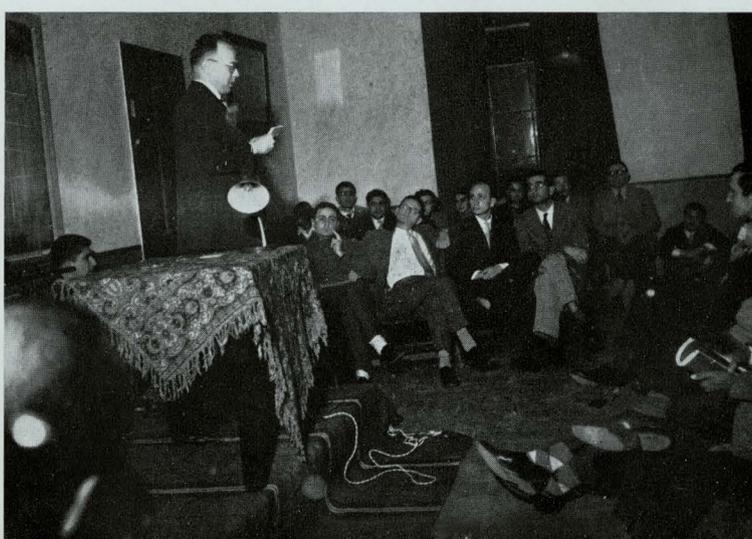
The third line of photographs on these two pages show the Engineering Inter-class "General Knowledge Contest". The Contest between the four teams lasted three sessions. The total score ranged as follows: fourth year 54 points, first year 46 points, third year 37 points and second year 22 points. Mr. Laurence Grand, who was invited to act again as Quiz Master this year, succeeded in keeping the audience in a very good mood. After the final session members of the winning team (Nabil Abdul Karim, Victor Bankoul, Majid Jishi and Hratch Papazian) received prizes for this occasion and all attending students and their teams joined for refreshments in the Students' Lounge.

The bottom row of photographs, on these two pages, were taken during The General Knowledge Contest between Engineering and Medicine. West Hall Societies Room was in uproar on the 17th of March when tense Engineers and Medics awaited the opening of the big contest. The latter came about after the MSS challenged the ESS for such an activity as they twain had only met on the Athletic field. Victor Bankoul, Zahi Haddad, Hratch Papazian and Sahag Toutjian represented the ESS. Professor Terry Prothro acted as quiz master. The MSS won after a tight-fought competition by 53 over 39 points.



The first two photos on the left take us back to the ESS reception given at the beginning of the year, in West Hall Common Room, in honor of the new Engineering students and faculty. The new members circulated informally among those present before they were introduced individually to the gathering by president Papazian. Conversational groups then formed around the room, while refreshments were served.

The ESS held its first acquaintance party in West Hall Common Room on November 17, (photo to the right and whole line below.) The tea and dancing affair, enlivened by the participation of a host of AUB and BCW girls, opened with Fuad Abu-Nasr's welcome speech in Spanish, accompanied by Tarek Kabbara's occasional Arabic translation. Then Cecil and Tony picked it up, and the dance floor remained crowded to the very end. Miss Lulu Moussa (BCW) sang "Kiss", but the hit of the evening was definitely Samira Saidi's (BCW) beautiful rendition of the popular "Answer Me" and "O Mine Papa". At 10:15, to the strains of Alma Mater, the party came to an end, a huge success and one of the best of its kind.

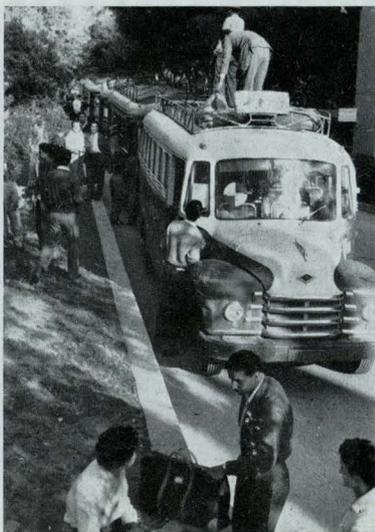


Trips :

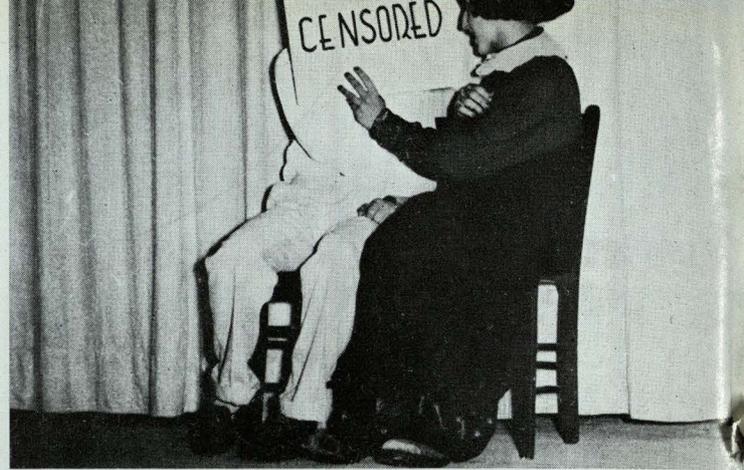
The three photographs in the first line of these two pages were taken during the first ESS trip this year, to the South of Lebanon. On Sunday, November 21, despite the bad weather and the rain, two bus-full of boys and girls left Beirut and, passing by Sidon and Merjayoun, landed at the scenic Café of Hasbani. After lunch, the group found itself at Shtaura, and not willing to return to Beirut so early, it decided to pass by Zählé. There in a cozy corner of the big Wadi, dancing took up the rest of the time, until the group reluctantly decided to return home.

The second line of photographs represent the second trip that the ESS organized to Afka cave. Engineering boys and BCW girls in two busses and a station wagon reached Afka by noon, and went around to see all there was to be seen. After lunch, and a good two-hours rest, a heavy rain set the group back on its track. On the way, St. Michel beach provided an irresistible refuge, where with the roaring sound of the waves, the tempo came sharper to the ears of the dancers. Though unwilling to depart, the girls had to obey BCW regulations, and be in by 7:00 p.m.

The last two rows of photographs show the different phases of the trip arranged by the ESS to the Rabbits Island. On May 6, four busses, with targets on their windshields, left the Medical Gate towards BCW, where the rest of the load was taken over, before the busses could move towards their destination. After a short tour in Tripoli, the group of 120 persons boarded three launches, which after 25 minutes dropped them off on the shore of Rabbits Island. There, people swam, sat on the sand under the shade of Pepsi Cola umbrellas, played with balls, toured the Island in search of sea-gull eggs, and even caught rabbits. Lunch, and then people were again on the move — this time to the Mardashieh Café in Zgharta. There, dancing took place on the rythm of a few out-of-date records, which were soon abandoned, and the music of the ESS band filled the air instead. The people were not so keen to dance, and the reproduction of two of the items of the ESS Show (The Opera, and the Mambo Singer) seemed to be more welcome to their hearts. By 5:30 p.m. the busses were heading towards Beirut, thus ending another successful ESS Trip.



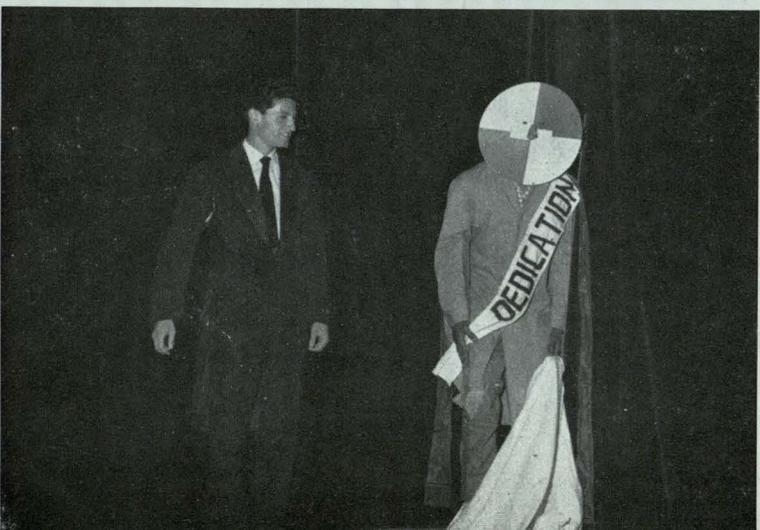




1955 ESS Target Show

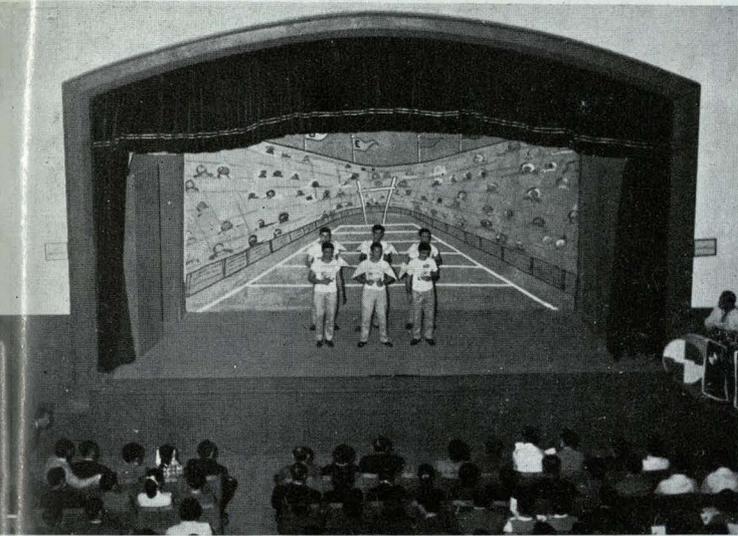
To give the Homecoming Alumni a chance to see it, the 1955 Target Show was presented earlier this year.

The Show opened with the Traditional can-can dance. The 1st half presented the «Traveller» which included sketches from different parts of the world, (notable among which were Fuad Abu Nasr's Mambo, Faruk Midani's Mexican Slow Motion and Edward Na'man's Carmen); «Roman Holiday» about American tourist Samir Issa in a Roman museum; «Mystery Street», a series of sketches representing Beirut street scenes; «Dedication», a take-off on the Dedication of the School with Zahi Haddad as Dean Weidner. Marcel Sawaya's traditional musical was after the intermission and featured an American Football game set to words, music, and dance. Tough football players Riad Malki, George Ayoub, Sakr Fakry.. and football Victor Shiber scored admirably. Following it came the Arabic play «Elections» in which Fuad Abu Nasr and Joseph Safar poked fun at Ras-Beirut candidates, and the political «Europe '55», a take-off on the European Defence Council, amongst the members of which were Spanish representative Michel Awad, Dutch representative Henry Jureidini and German representative Aboud-Klink.





Fast moving and very original, the 1954 ESS Target Show proved to be the most successful variety show of the year. The introduction by the can-can dancers was followed by a series of small, well-done take-off — on Prophet Butros Id Ed-dib, Popeye, and greetings in different parts of the world. Then came the witty “If Men Behaved as Women Do” and “Cocktails for two” — or grim love and murder musical yarn in which Faruk Midani kills ballerina Salwa Aoun for the love of good-time night-club dancer, Terry Warren; Waiter Charlie Zachariya and Detective Riad Maliki are around. After the intermission came the hit of the evening, “UN Security Council Meeting”, beautifully acted out by the one and all, especially Ibrahim Hamidi (now in the USA) as the French, Michel Awad as the Mexican, and Issa Farah as the Egyptian delegates. This was followed by Edward Na‘man and Ibrahim Resek as gold-digging Dorothy and Lorelei in the hilarious “Engineers Prefer Brunettes”. The final item was the Arabic “Scholars” presenting Fuad Abu Nasr as Sahsouh School master to a group of develish and know-nothing pupils. (four photos to left)



Target Ball

The Traditional ESS Christmas Target Ball had to be postponed this year in grief of the death of President Penrose. The date set for an ESS Target Ball is *May 28*.

Poetry Contest

The ESS has arranged a contest, open for all Engineering students and later to previous graduates to compose an Anthem for the Engineering School. The winner was Mr. Shawki Freiha, a fourth year Mechanical Engineering student, who was awarded the prize of a poetry book. The poem is now being set to music, and will become the first Engineering song.

Tennis Tournament

The ESS has organized a tennis tournament for the Engineering students. Only the finals for the doubles have been concluded up till now, with Munir Bulus and Mubadda Swaydan as Champions. In the singles Messrs. Bulus, Batri, Alamuddin and Najarian have reached the semi finals. It has been arranged that the winners will play against engineering Faculty members.

Loan Fund

The two year old ESS Emergency loan fund has provided help so far this year to four Engineering students with the sum of LL. 800.



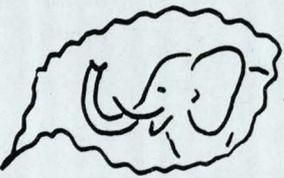
General Knowledge
Contest.
Time allowed
60 seconds.

What is a psi?

Two seconds
more..

J. Michalewicz

I think the advertisement
says, a trip to AF.KA



J. Michalewicz

THE AUB ENGINEERING STUDENT CORPORATION



The main activity of the 1955 corporation has been the invitation of the "Lebanese Order of Engineers" and the Faculty of the "Ecole Supérieure d'Ingénieurs de Beyrouth". This party was organized jointly with the Engineering Student Society.

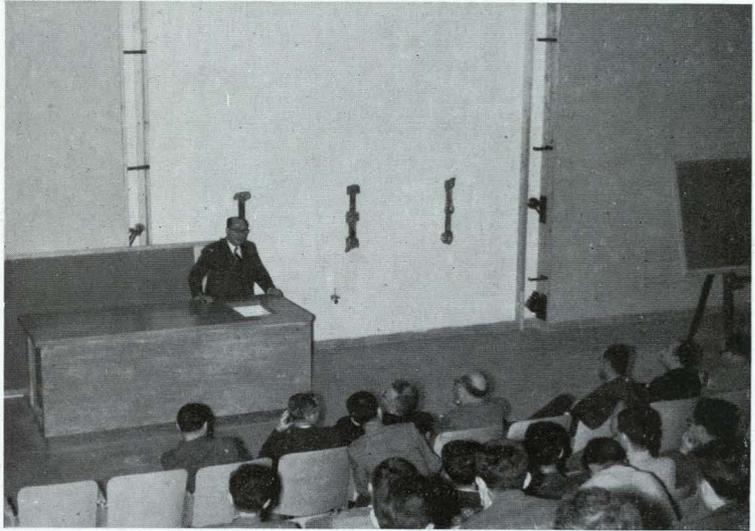
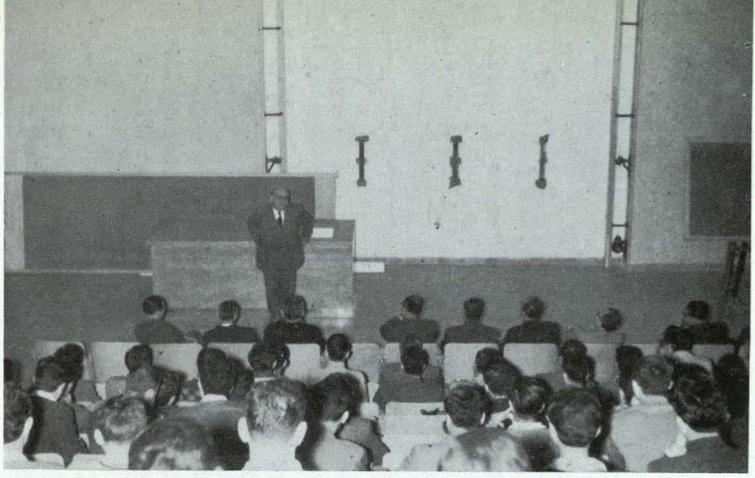
On the 16th of February, Cabinet members of both the Tripoli and Beirut sections were received in the students lounge and then taken to the lecture hall where they were introduced one by one to the students. The latter manifested their respect and appreciation by giving each a hearty clap. The presidents of the Beirut and Tripoli sections presented in Arabic a short explanation of the functions and aims of the Order. The secretary of the Beirut section then gave a brief translation of their speeches in English.

As refreshments were served in the lounge, informal discussions between students, faculty and Order members went on, as can be noticed in the adjoining photographs.

We must recognize that the corporation this year has made every possible effort to keep the fourth floor drafting room quiet.

The members of the Engineering Student Corporation Cabinet as formed this year are :

said shammas	president	varoujan azadian	vice-president
umar dabbagh	secretary	laurent khayyat	security officer
nabih majdalani	treasurer		





Presentation of the first copy of the 1954 Yearbook to the late President Penrose



THE YEARBOOK

The Engineering students are becoming more and more interested in working on this yearly publication of our School — the Yearbook. Consequently it is improving from year to year, demanding increased work and efficient effort which the members of the Yearbook Committee are not failing to supply. The main objective and the only goal in view is to catch each fleeting year of our Engineering life at AUB and record it on paper, representing all its phases in a coordinated form, so that it may stay alive in front of us, at times of recollection.

To the original Managerial, Editorial, Layout and Treasury Committees, a Photography Committee has been added this year whose work is to make provisions for taking pictures of all our activities, and to collect photographs suitable for the Yearbook.

We wish to extend a special word of thanks to Mrs. Weidner, who devoted some of her time to the reading over of the manuscripts for the first part of this book, before she left to accompany the Dean abroad.



*editorial committee of
the 1955 year book*

michel awwad : apprentice photographer

shawki freiha : editor

avedis guiragossian : assistant layout

nabih majdalani : layout manager

gabriel matta : apprentice treasurer

youssif matta : assistant treasurer

gilbert mishalani : layout co-manager

bashara murr : apprentice editor

khalid musfi : assistant manager

vahan piranian : assistant photographer

youssif rishani : secretary

adel saad : apprentice manager

albert sarrafian : photography manager

nicolas shamma : general manager

mubadda suwaydan : assistant editor

vahé yacoubian : treasurer

mikhael youssoufian : apprentice layout



SUMMER SURVEYING CAMP

15 second year and 63 first year students with 6 faculty members attended the Summer Surveying Camp just outside of Zgharta the summer of 1954. Although the Camp was for the specific purpose of surveying, the students were expected to build the camp and do maintenance duties, including the installation and running of the generators, the oven, and the water storage tanks. Camp was not all work — there was plenty of play which took the form of volleyball, trips, music, and movies. The camp volleyball and basketball teams played against the C. J. C. of Tripoli. They won in basketball but lost the other. A general trip to Ehden was undertaken followed by a second year overnight trip there. Several well attended classical music sessions were organized at camp. The first year students spent five weeks up there and the second year nine weeks. Week-end leaves were granted about once every fortnight. On the first year students' last evening in camp the second yearites staged a successful impromptu show and no one missed out on the hallabaloo that followed. On the whole the Summer Surveying Camp was something that will last for a long time in the memories of those who attended it.

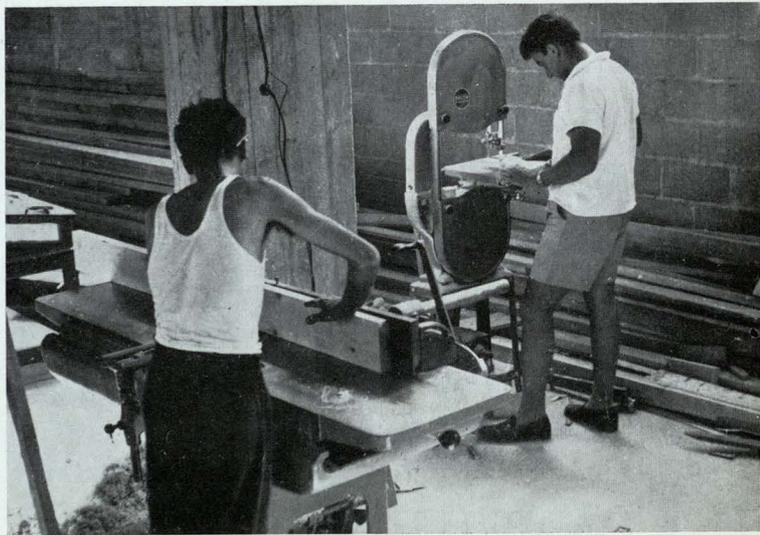
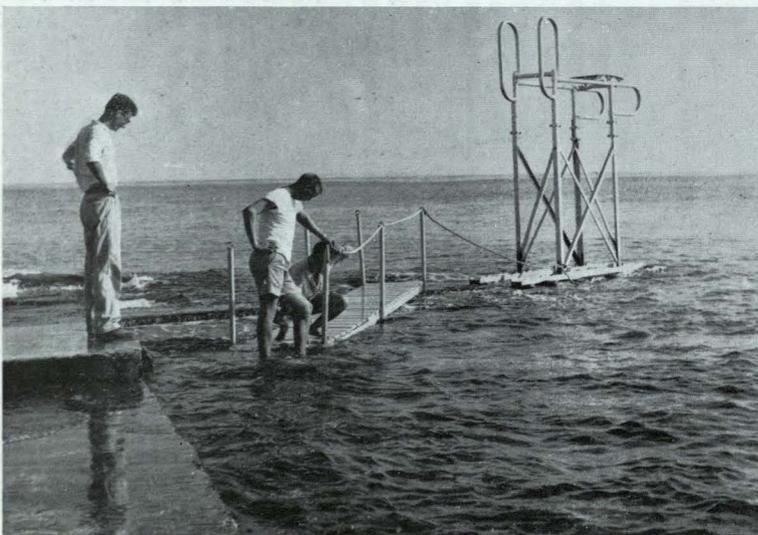


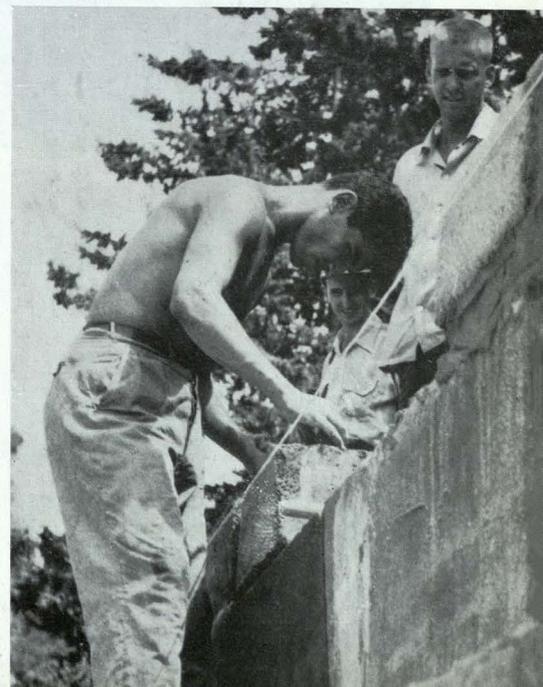
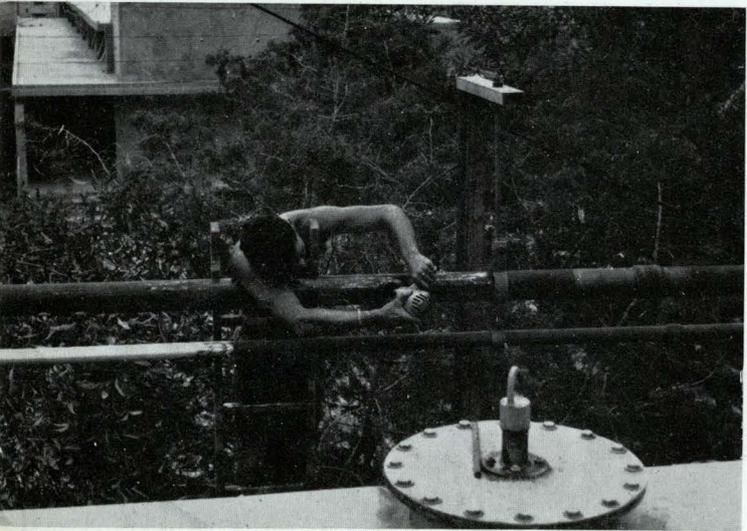
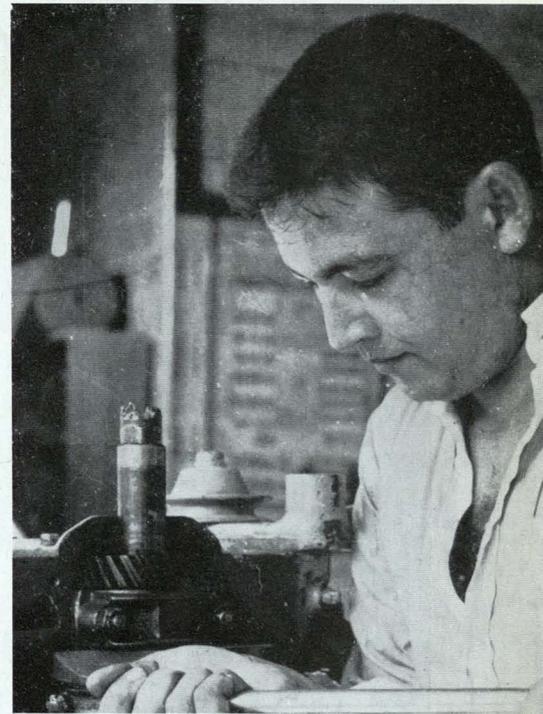
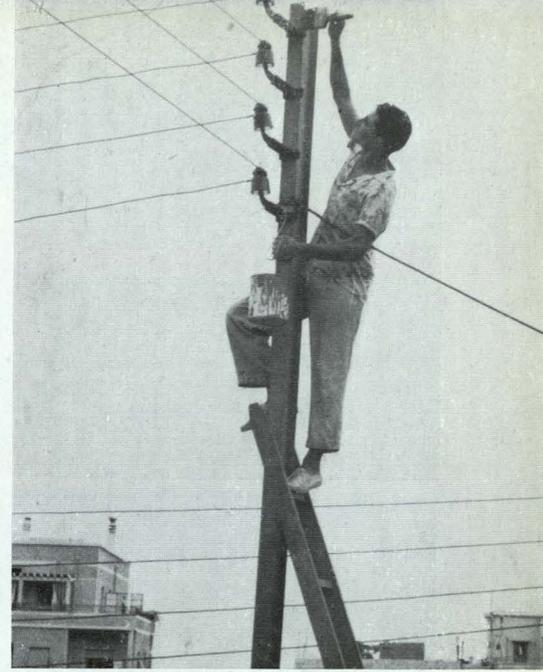


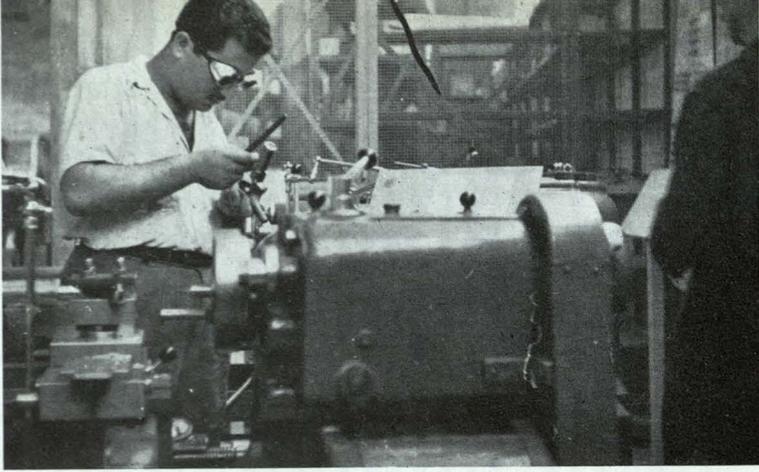


SUMMER WORKSHOPS

The second year students spent eight active weeks last summer in the Engineering Work Shops. During the first four weeks the work for the Mechanical Students was at Patterns, Drawing, Engines and Welding; Electrical Wiring for the Electricals; and mainly Paint Shop for the Architects. A number of teachers took part in instruction and supervision, namely Prof. Fairfield, Prof. Page, Prof. Cope, Mr. Atallah, Mr. Buck, Mr. Saab, Mr. Moussa, and last (but by no means least) Mr. Deeb the welder. In the next four weeks the work was changed to die making, mill wright and construction. But, no doubt, the most exciting part of the work was the erection of a diving board on the University beach with an I-beam bridge to connect it to the shore. Pouring concrete in water was particularly difficult, due to a constant combat with the challenging waves of the sea, which kept hampering progress. At last when the work was concluded, a fun ceremony took place to celebrate the birth of the new diving board.





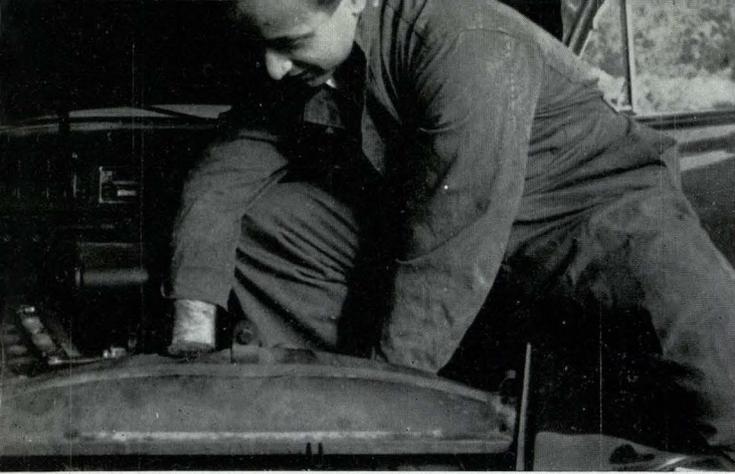


WORK OUTSIDE

Last summer, the students of the third year class were given the choice of either finding an outside job or staying and working at the Engineering School Shops. Fortunately, the CAT Company accepted to take over the bulk of the class to send them to the different places where it was doing work. Students from the Civil, Mechanical and Electrical branches were employed, with a salary of a little over LL. 300 per month. Here is a list of the third year students, the name of the place where they have worked and the type of work that they were doing:

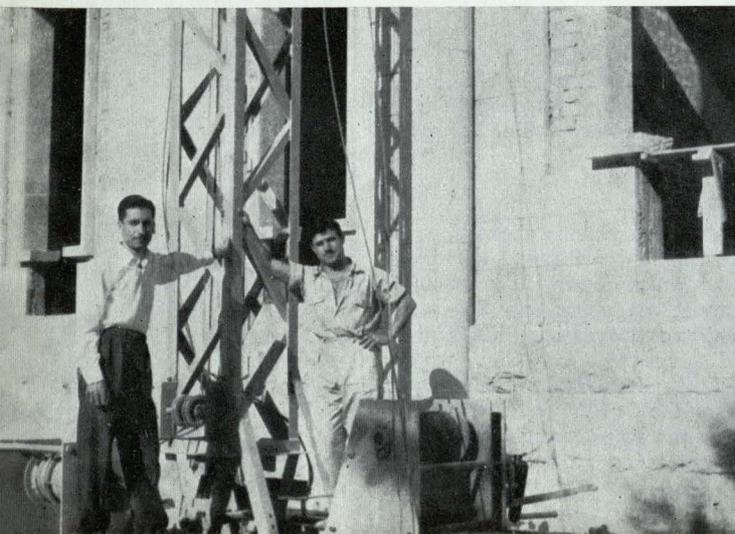
Michel Abou-Jawdah, Mukhtar Malas, Kanan Muiassar, Rafik Samaha, William Samman, Robert Sarkis, Saïd Shammas and Wadi' Tawk — Kirkuk — Road Construction job. Nabil Abdul-Karim and Vasken Najarian — Kirkuk — machinery maintenance work. Munir Halabi, Hisham Dajani, Albert Sarrafian and Nicolas Shamma — Kuwait — various projects. Majid Jishi, Ali Shubbar and Khalil Nubani — Musaiib — great irrigation scheme. Antoine Gemayel and Wahib Hamzeh — Qatar — installation of boilers and work shop. Hratch Papazian — Baghdad — construction of a palace for the King. Only one person, Vahé Yacoubian, stayed in Beirut to work with the CAT on heating and air-conditioning.





Some students preferred to work in their home towns, such as Laurent Khayat who worked on a building construction job in Aleppo, and Ali Alamuddin who did mechanical work in a work shop in Amman. Other students were so ambitious as to leave the country altogether: Victor Bankoul went to Switzerland where he worked in a factory which produces hydraulic turbines, generators, transformers and even locomotives, while Joseph Rishani went to Germany and worked in a factory for tractors and centrifugal separators. (His was work and no play as can be seen in the adjoining picture to the left). Roger Chehiré, Wa'il Dajani, Shawki Freiha, Gilbert Mash'alani, and Daniel Shidrawi, all from the Mechanical class, remained at AUB where a special course was prepared for them in machine shop, engine shop, pattern and die making, and welding. Chehiré had to leave after hurting his fingers and joined the CAT in Beirut on a Surveying job. Umar Dabbagh (Electrical) did the Wiring in the Zgharta Surveying Camp, and later was given work to do at AUB.

The Architectural students Varouj Azadian, Nabih Majdalani, and Riad Maliki worked on various building constructions jobs; Azadian in Beirut, Maliki in Damascus and Majdalani on the University farm buildings in The Bekaa.



PRE-ENGINEERING QUALIFYING COURSE

September 4th, 1954 dawned on 120 new aspirants all ready for surprises in the School of Engineering during the coming month. Classes began at 7:00 a.m. (Beirut summer time) to end at 4:00 p.m. from Monday all through the week to Saturday afternoon. Lessons included engineering graphics, shop,... etc, all quite tiresome but interesting. The « Meccano » sets and jig saw puzzles were a pleasant surprise but proved shocking to many. Once a week at 3:00 p.m. came Athletics. Professor Tarabulsi did a good job of making us go through continual exercises for 2-1/2 hours (being toasted under the September sun all the time) and then dipping us in the sea and we had to swim to the flag. The course was pleasant even though we had to be in class at 7:00 a.m., no matter if we summered up in the mountains. It taught the future engineers good discipline — you never saw an unshaven face — and it unified the standard of the students and gave them a good foresight into engineering. During this course we could swim free of charge as the guests of the School of Engineering.

LECTURES

The Engineering students and community enjoyed many lectures this year, given by various speakers in various fields. Following is a list of some of these lectures :

“ Photo Chemical Reactions in Sunlight ” by Dr A. Mustafa.

“ The History of Cloud Seeding and its Possible Benefits ” by Mr. James C. Pratt.

“ The Ghab Project in Syria ” by Mr. Adel-Baset Al-Khatib.

“ Industrial Water Treatment, its Theory and Applications ”,

“ Telecommunications ” by Mr. A. G. Coates (top third photo)

“ Soudan Today ” by the Minister of Economy and Finance in Soudan, Mr. Hemad Tawfic.

“ Theory of Combustion ” by S. K. Thabet.

“ Recent Advances in Hydraulic Engineering ” by Calvin Victor Davis (seen in top second photo).

“ Exploring for Oil ” by F.A. Gibson.

“ High Pressure Boilers and Their Application to Industries ” by Prof. Walter Baggaley.

“ Some Current Developments in Atomic Physics ” by Dr Wayne E. Hazen.

“ Modern Architecture and Building in Germany ” by Professor Ernest Neufert (bottom two photos), and the papers delivered during the Engineering Homecoming (top first photo, Dr. Ahmed Selim, see pages 82 and 83).

FILM SERIES

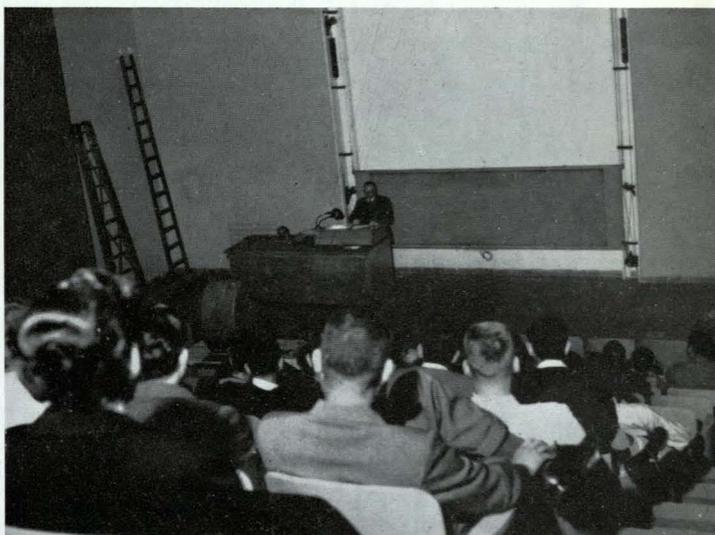
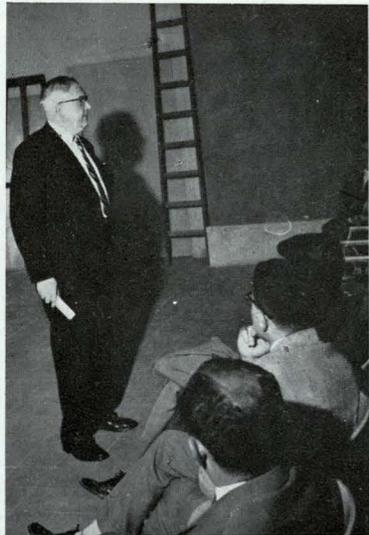
Films dealing with the various subjects of Engineering were shown at the Lecture Hall to supplement Books and Laboratories. Some of the films shown this year are :

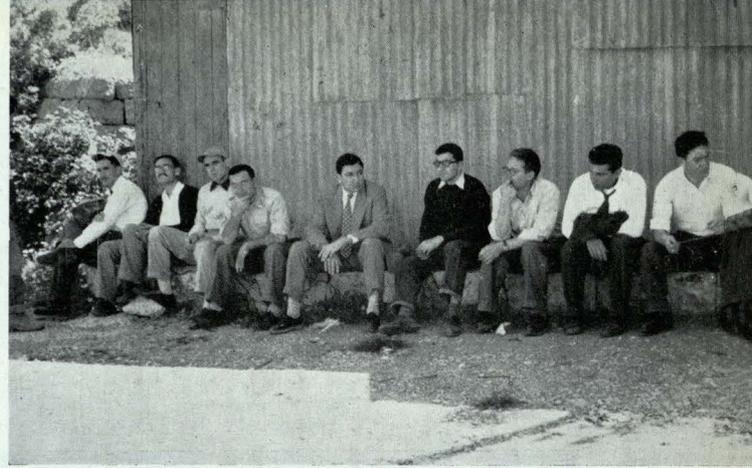
“ Industrial Lake-Port ”, “ Museum of Science and Industry ”, “ Steel ”, “ Franklin Watkins ”, “ Creative Leisure ”, “ Concrete ”, “ Water Sickert ”, “ Nature of Plastics ”, “ Moving Earth ”, “ Jet Planes ”, “ Steam Engines and Turbines ”, “ Springs and Screws ” “ Science behind the car ” and “ Lubrication ”.

CHESS TOURNAMENT

It is amazing to notice how keen Engineering Students are becoming on playing chess. You do not pass by the Student Lounge without seeing chess players who, in their attempt to withdraw into some remote corner, cannot escape the flock of on-lookers who gather around them. Sometimes they manage to retreat to their drawing tables in the Drafting Room where they feel safer and more able to concentrate. This year's chess Tournament enjoyed the participation of over thirty players. The winner was to be appointed President of the Engineering Chess Club, which was not formed as yet. The Champion came out to be George Katul, who thereby has become President, and is now in the act of choosing the different members of the Club.

Thanks to Professor George Abi-Rashed who introduced chess into the Engineering School and who is still supervising it, this game is much enjoyed in addition to its being an excellent spare-time-filler for the Engineering Student.





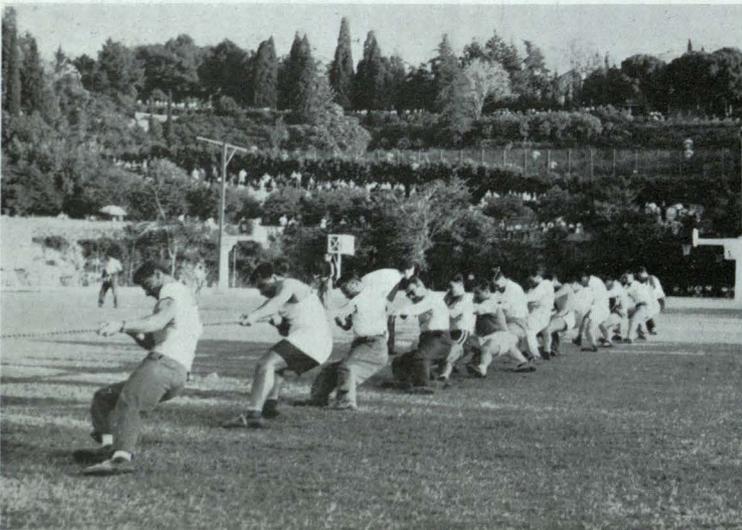
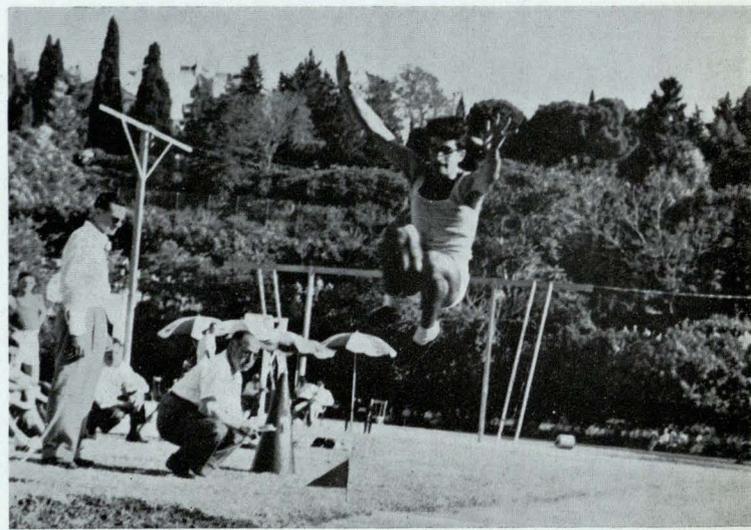
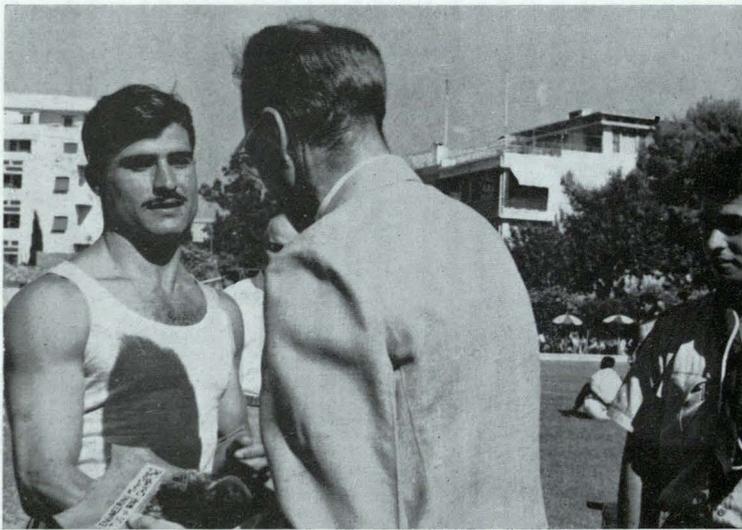
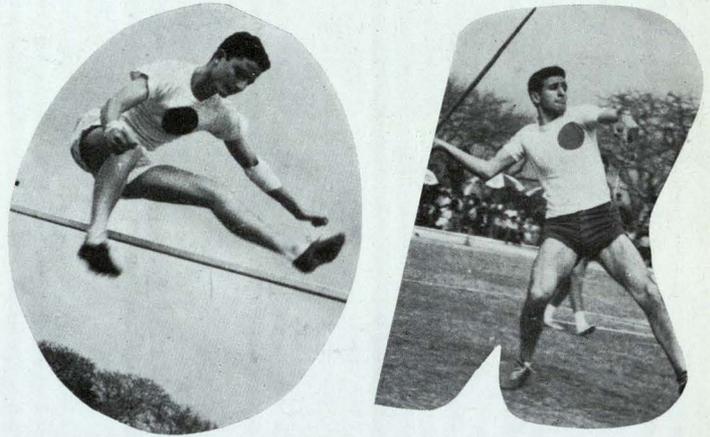
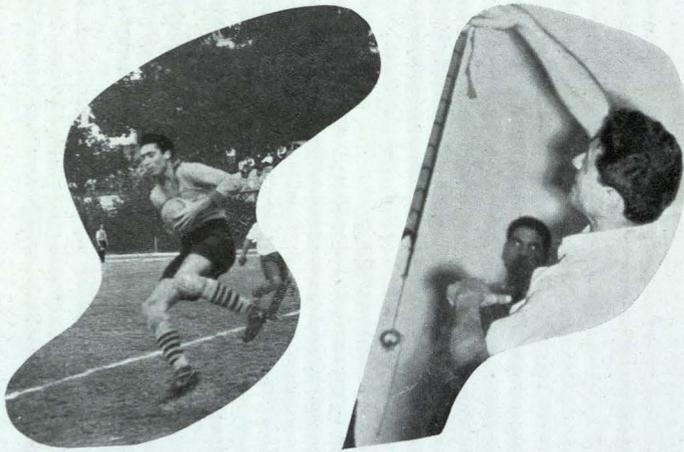
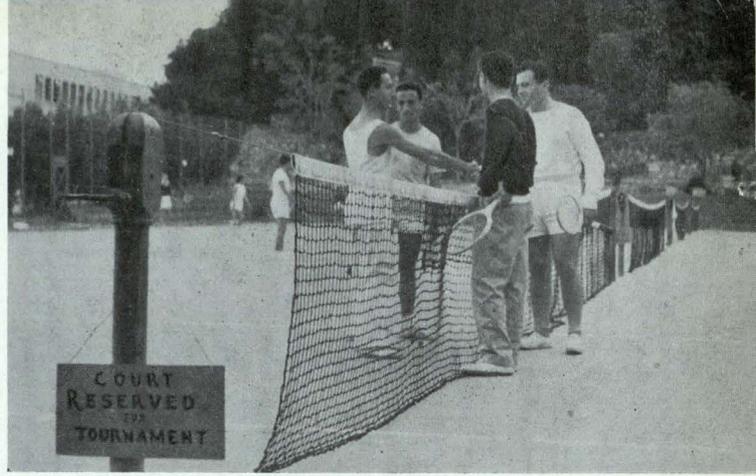
TECHNICAL TRIPS

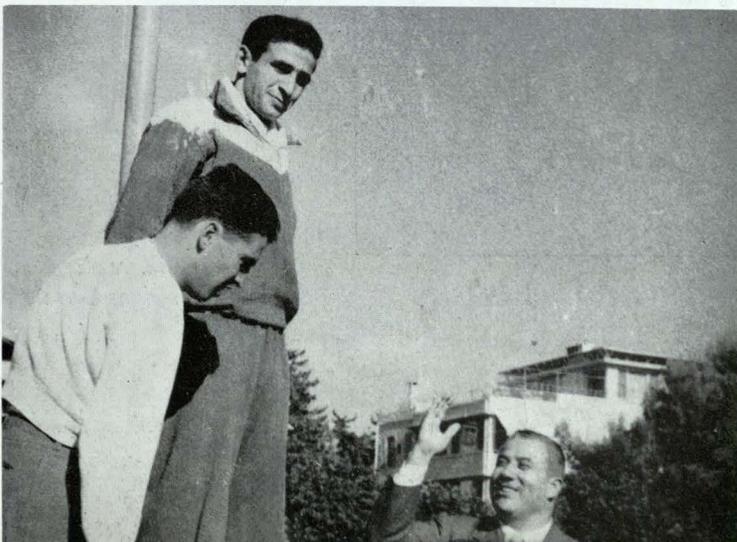
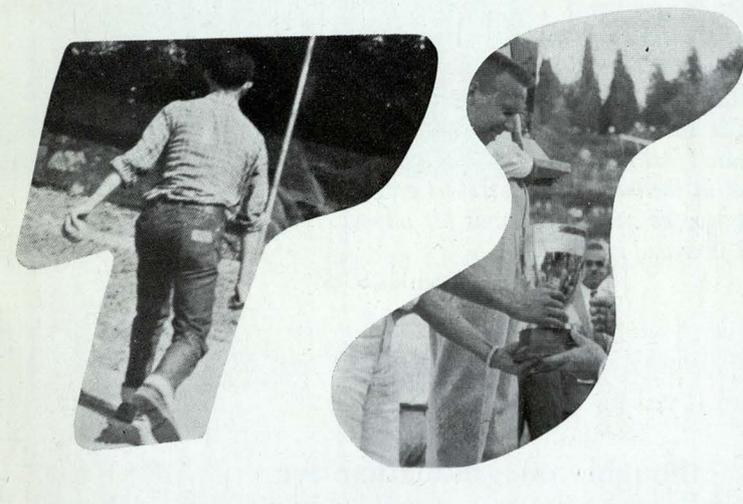
Technical Trips constitute a good addition to Engineering Lab. work. On many an afternoon, we see at the Medical Gate busses filling with Engineering Students and heading a short while afterwards towards a factory, Engineering Works, or any other place of special interest. On arriving at the place to be visited, some person familiar with the work would act as a guide, explaining points of interest and answering raised questions. In many cases our Engineering Faculty does the explanation, to illustrate what has been talked about in class.

The photographs on these two pages show different groups on some of these Technical Trips. Of the places that were visited and that can be discerned in these photographs from top left to bottom right are : The Dbaieh Water Purification Plant, the Barouk-Aley Water Supply Project (three photos), the Beirut Sands Development Project, the Bared Dam and Power House (two pictures), the Excalibur Steamer of the American Export Lines, the Rabya Housing Development, the IPC Refinery Power Plant, Reinforced Concrete field works, Kassardjian's foundries, the Kasmieh Project, the Esseily Textile Factory, the Bekaa University Farm. These Technical Trips, in addition to their being very beneficial, are usually tremendously enjoyed by the students.









a perspective view of the fourth-year civil engineers

This is to introduce a group of students with a great variety of tastes. Their combination has resulted in a cocktail. The intent of the following paragraph will be to discuss the various elements that have gone into the formation of the Cocktail.

There is Laurent "Bousinesq" who has invented the following equation : eighteen hours of study per day plus a movie once in a blue moon equals Life. Ahmed advocates that talking is a virtue, while Raffic strongly objects to the idea. You do not know the definition of seriousness unless you have met Majed "Casagrande". William believes that motions of hands are much more expressive than words. As far as grades and politics are concerned, Said is the aggressive. Wadi', having Said and William as allies, has one prominent goal in life, namely — to prove that Homs is the center of the world. Differential and integral calculus is the only answer that Kanān "Kakanovitch" gives to every problem. Mukhtar has pleasant remembrances from the summer work in Iraq. In spite of his political and social tendencies, Munir's physical resemblance to Malenkov cannot be disregarded. When Ali the "Kid" was asked by one of the professors as to where he spends his nights, he answered "in my bed sir". Michel receives five "business" letters per day. All these years Hratch "Terzaghi" is trying to prove that he is not a genius. Two years ago, when we were having a course in thermodynamics, Robert was asked to find out a term which was not apparent in the formula ; "It's there but we do not see it" was his answer. The professor reminded the class that the topic under discussion was Heat Power and not God.

robert sarkis, class' 55

thoughts on graduation eve



*There, down the hill and by the sea,
On Lebanon's blue shore,
Lies one and dear part of me
Hence evermore.*

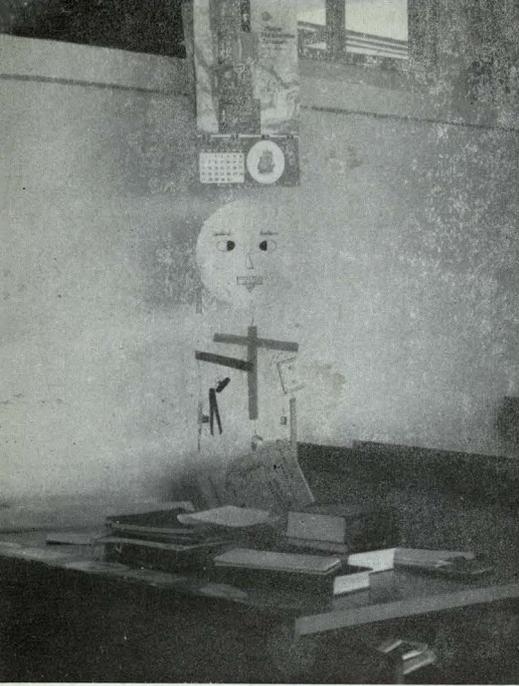
*For mem'ry'll ever bring to mind
The fellow engineers —
Companions strong, advisors kind,
For many years.*

*And now that I shall cross the gate
And step into the world —
A fresh and zealous candidate
With banner unfurled :*

*As engineer I'll take my place,
Along with others few,
And help direct the human race
To start anew.*

*And build a world, one nation strong,
A hymn for e'er to sing ;
Where o'er that grand and noble throng ;
Reigns God the King.*

n.abdul-karim, class' 55



STUDENTS' MUSINGS

girl playing archery

Bathing in sunshine, lighter than the air,
 She pulled the string and let the arrow go :
 Stout and erect, she held with grace the bow,
 Of golden hue, yet more golden her hair ;
 A calm blue sea, a bright green field, a stir
 Of fresh-awakened breeze, and music low,
 Combined in such sweet concord as to show
 How charm, like magic, holds the eye to stare.
 And as I stood, enraptured by the sight,
 The lass went forth and picked the sharpest one —
 An arrow that e'en Cupid would deem right
 To pierce the boldest heart beneath the sun ;
 She drew and shot ; I saw the arrow dart
 So beautifully swift, and it struck my heart.

shawki freiha, class' 55

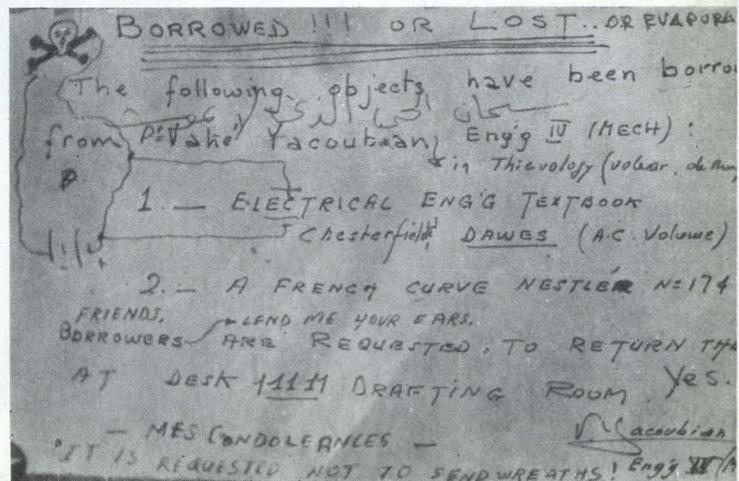
زاد حبي كلما الدهر قسا
 إسألوا سلمى اذا مرت بكم
 فاذا بشت ولانت بشروا
 يئس الاهلون من حبي لها
 يهمس الصبح باذني ذكرها
 فهي عندي كل شيء وحدها
 فهاها خالد لا ينتسى
 عطفها اني عدت النفسا
 وخذوا قلبي جزاء فعمسى ...
 وفؤادي عازم ما يئسا
 واذا الليل اتاني همسا
 وصلاتي كل صبح ومسا

ان يقولوا جوعته عاقما !
 او يقولوا اسكرته عينها ؟
 واذا قالوا قست في حجره
 فانا في حب سلمى مركب
 لبس القلب سواداً في الهوى
 فقت كل الناس حسناً مثلاً
 علقم الحب بشوق يحتمسى
 فعيون الظبي تهدي النفسا
 صدقوهم قلب سلماي قسا
 ضل ان شئت وان شئت رسا
 فتعالى وانظري ما لبسا
 فاق كل الناس قلبي تعسا

عكف الناس على درس الهوى
 هكذا الحب وهذا شرعه
 غلطوا ان الهوى لن يدرسا
 ليس يخلوا الحب من غير أسى

« اسامه بارودي »

(شباط ١٩٥٢)





*What the student thinks may be right,
but what the teacher thinks is right!*

BURKE



assumptions, assumptions, assumptions — BAGGALEY

*This is not hobnob nor a
hotch-potch... there is no
gala-gala in it : it is a
simple geological feature...*

AVEDISSIAN





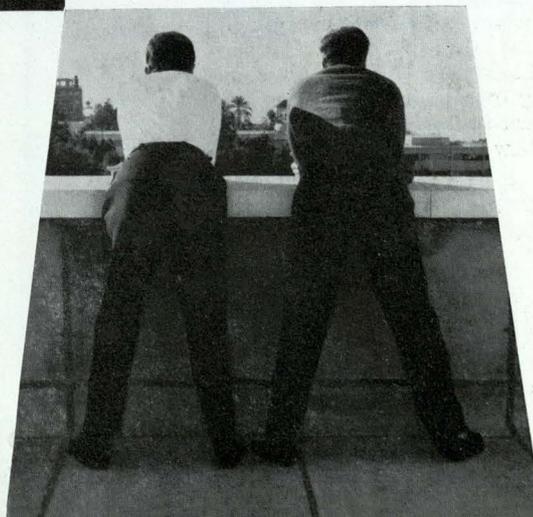
When I was a kid, I used to... HOPE



We shall WALK through the equation $y = e^x$ and explore it.
GRABER



Tailors and shoemakers use Descriptive Geometry without having learned it; students learn it but don't know how to use it...
KALAYAN



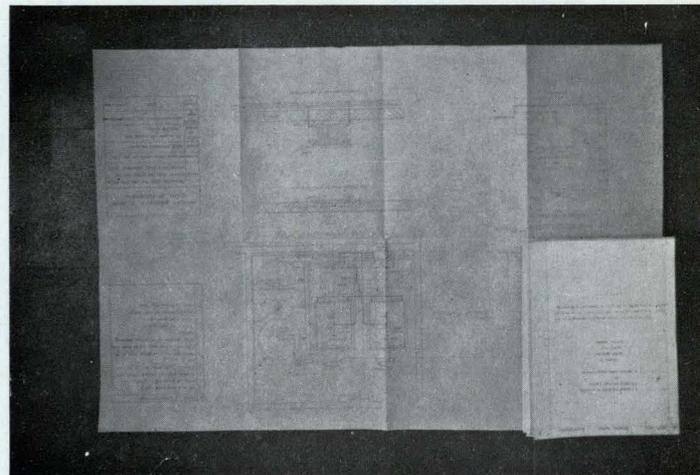


FOURTH YEAR STUDENTS PROJECT

One thing which does not affect other students, but takes lots of time and effort on the part of the Fourth Year's, is the Project required from them before graduation.

The work on the Project is analogous to a long-distance run, on which the student starts slowly, until he gets more information, and has time to gain speed and move steadily along. In its final stage of arranging, typing, correcting, blue-printing, cutting and folding, the work becomes tense and breath-taking. It is the last hundred-meter sprint, after a long and wearing run, to reach the finish at the set dead-line. Not until he hands in his Project can the student feel that a heavy weight has been lifted off his back.

This year the Civils were given to design the Tripoli-Homs turnpike, where a stretch of 6-km Road was assigned to each student. The Mechanical Projects proved difficult to choose, since it was the first time that such projects were being attempted. Students chose subjects without knowing what they really meant, and were disappointed to find out how many assumptions they had to make due to the lack of available data. But with the help of Professors Baggaley and Fairfield the difficulties were surmounted, and the story came to a happy ending. The

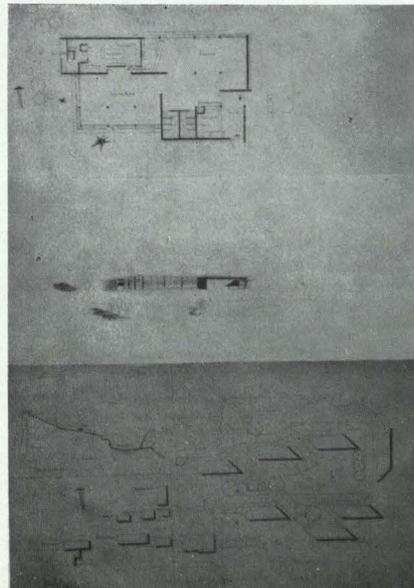
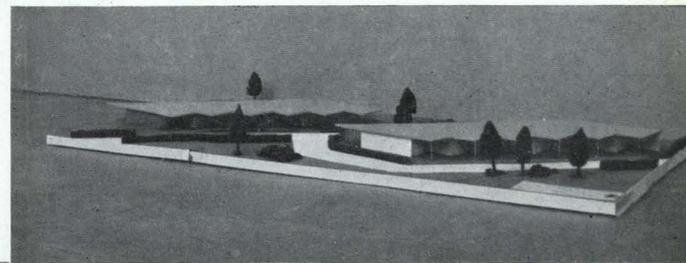
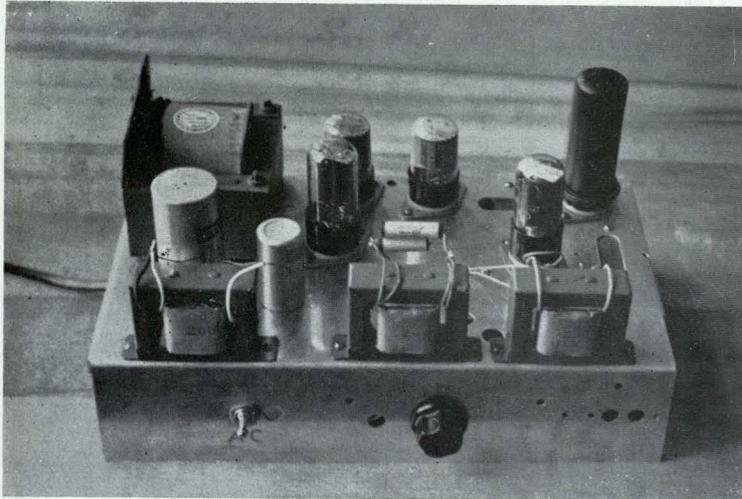


Electrical projects proved to be no less easy. The Architects designed caravanserais (Motels) to be located on the way from Damascus to Baghdad. The most interesting part of their work was the building of models for their projects. Following are examples of the projects from each of the four branches, chosen at random to illustrate the work of the students, without any preference other than their ease of presentation. The most remarkable thing about the Civil projects is the amazing amount of printed maps, extensively long to contain the road being designed. Our friend Mukhtar Malas (shown in the first picture) seems lost among his papers, and we wonder how much time he spent each day folding and unfolding them.

The Mechanical Projects were so diversified varying from a Gin for extracting olive oil to a telesiege leading to the top of Sannin. The second photograph on previous page shows the layout of the boiler room from Vasken Najarian's Project on A Comparative Study of a Hot Water and a Panel Heating System for a building.

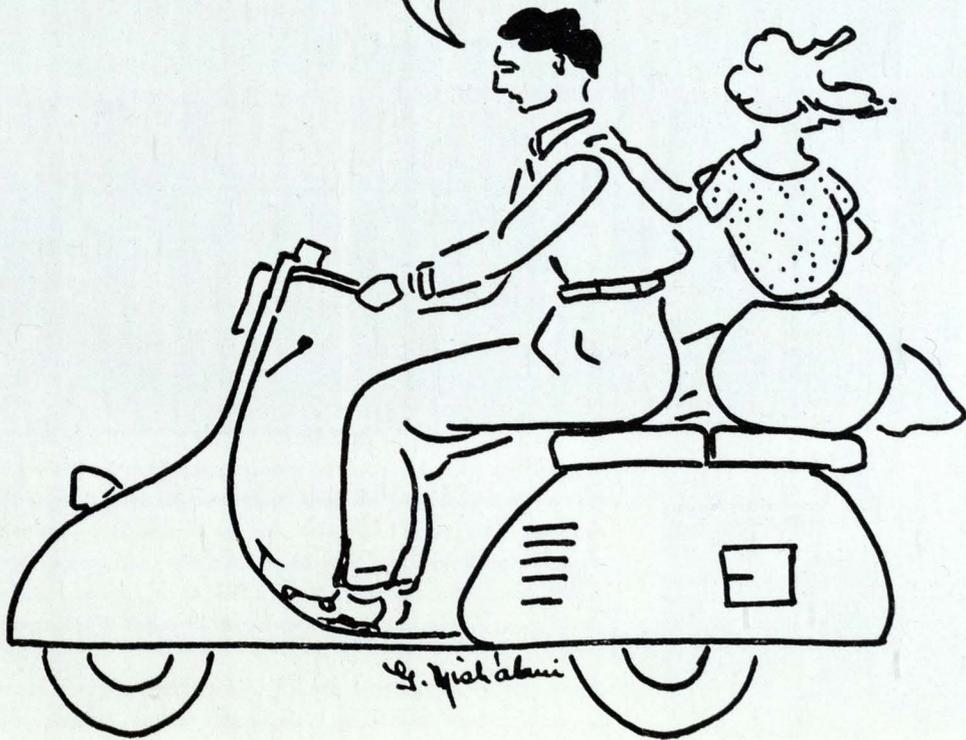
The Electrical Projects included among others the Design of a variable frequency oscillator shown here to the left. This Oscillator was actually built by Victor Bankoul, whose main work on his project was performed in the laboratory.

Some drawings and the model of Nabih Majdalani's motel design are shown in the lower two photographs.



THE GRADUATES

for a while this will be the only vehicle I can keep up with.



ABOUT THE GRADUATES

However far a graduate may roam, and for however long he may have left school, there remains, no doubt, in the bottom of his heart, a yearning for his Alma Mater. On the other hand, the students still at school retain in their memory hazy images of those who have gone before them, and to whom they have once looked as elders. They cannot help but feel a little inquisitive as to what happens to these fellows after they leave, none the less that they are following the same footsteps.

This whole Book serves to give the Graduate an idea of what is happening at his dear old school, but only this little section may help to satisfy the students' desire to learn about their predecessors.



In the above first and second pictures is a group of "funny faces", as Prof. Yeramian would say, working on the construction of the Adhamiyah Bridge, Baghdad. From left to right, they are : Y. Alpan, M. Nassar ('54), Jabbur, and A. Kaidbey ('54).

In the third picture above, taken at Damman, Persian Gulf, Nabil Nassar ('54) — second from right — is seen with some older graduates. Second from left is Nazih Sheikh ('51), and in the middle Najib Sawaya ('47). Nabil is working for a private contractor on building construction jobs. "Work is of good interest," he writes, "giving a beginner like me a lot of needed experience."



Many of our Syrian Graduates go directly to serve in the army after they leave us. In the picture above, Karnig Yacoubian ('54) is seen armed with a "bazooka" ready to charge.

Garbis Tabourian ('53) resides in Beirut where he works part time with Prof. Ghosn, and part time on his own. He is still secretary of the 1953 Class. As such he gets all information and keeps the boys in touch. In the first photo to the right he is seen working on the construction of a Villa in Dhour-el-Choueir. This does not keep him away from his bowling. He won this year's championship of the Bowling Open Tournament.

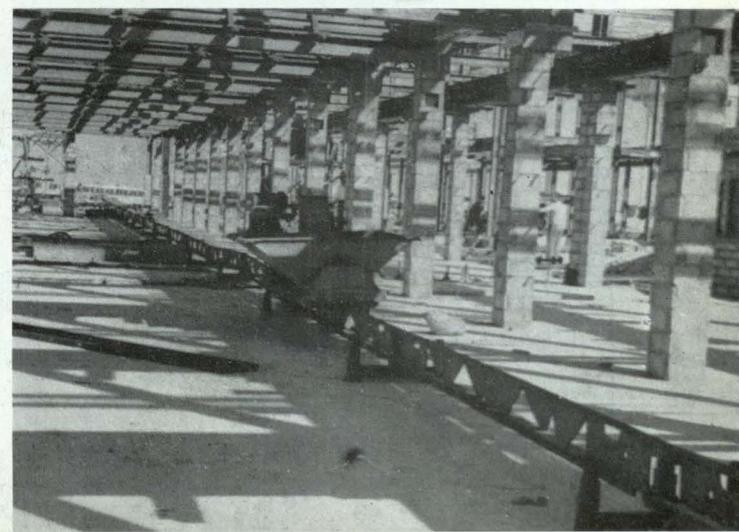


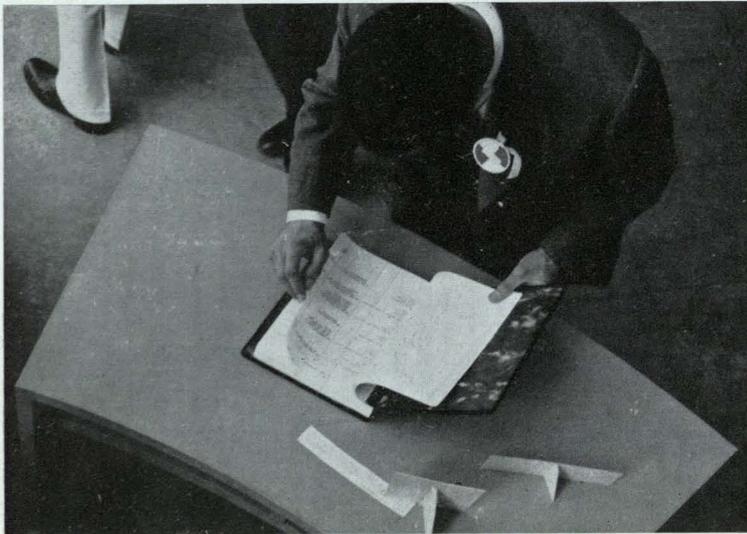
In the second picture to the right, Issa Farah (right), Munir Jiha (second from right), Emile Rizk (on top) and Khaled Shehadeh (not in picture), all 1954 graduates are working with the CAT Company in Qatar. Munir Jiha says, "In spite of the scorching sun, the whipping sandstorms and the suffocating humidity, the four CHILDREN enjoy the extensive experience in the work they are doing". (It is gratifying to note that they do not forget to count themselves Children of the school). Farah and Jiha are working on the construction of the State Hospital, (shown at the bottom), area 8500 square meters and steel frame construction encased in concrete.



Salim Azzam ('54) wrote: "I am working with the Saudi Government, in the Department of Roads and Bridges, at Riad. I have so far completed the design of approximately 21 km of road in Riad. At present, I am working on the design of an 85 km and a 20 km roads from Riad to El-Kharj and Ed-Dirieh respectively. I find the work extremely interesting, especially that it includes both field and office work".

Zain Mayyasi ('54), is working for the Amarah Company in the Riad branch. He is supervising at present the construction of two buildings, a transmitting and a receiving station, the designs of which were made in Germany. He has also just finished setting the batter boards for the construction of a Villa for one of the Princes.





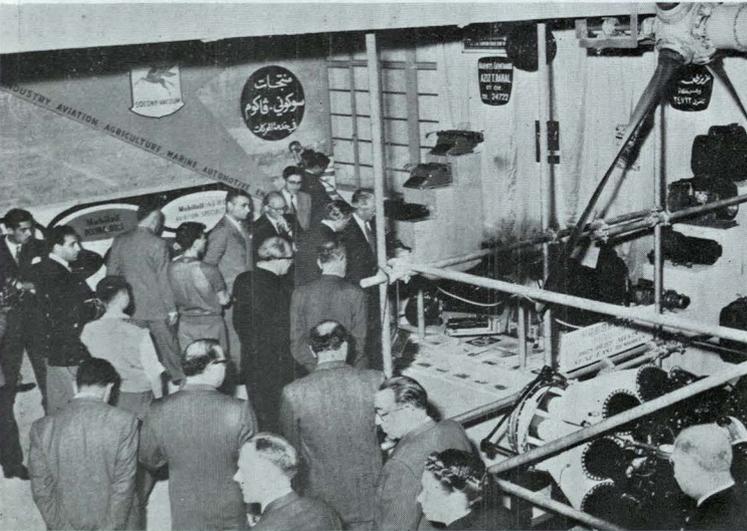


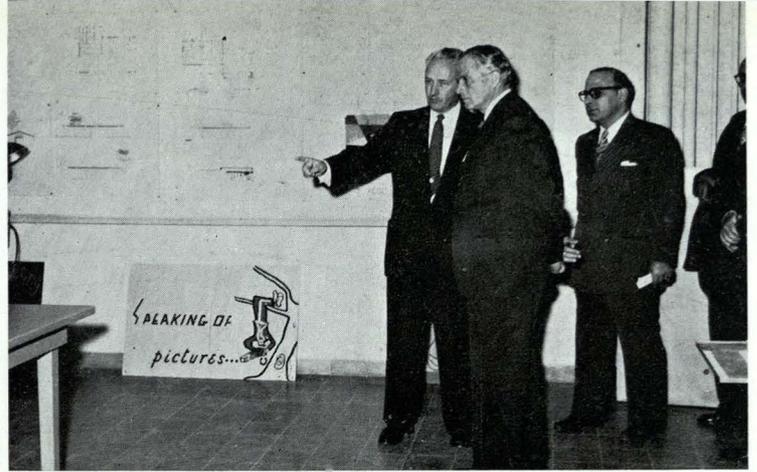
THE 1955 ENGINEERING HOMECOMING

The program of the Engineering Alumni Homecoming started on Friday, 15th April with registration at 9:00 a.m., inspection of the School, laboratories, Shop buildings and exhibitions by registered firms. The first item was a discussion of policies and program of the School of Engineering, followed by the election of the alumni committee. This was followed by a lecture on Engineering skill through the Roman period seen through their monuments in Lebanon, given by Professor H. Y. Kalayan. After lunch on the Engineering Terrace, the latest plans for the utilization and development of the Litani River were discussed by Edward Manasseh, head of the technical and concessionary services of Lebanon. Dr. Naji Abdul-Kadir of Iraq talked about the Tharthar Flood Scheme to end Friday's sessions. In the evening, the Target Show was presented to a full house in West Hall.

Saturday saw more technical sessions in the morning, the first of which was a talk given by Dr. Mohammed Selim, secretary general of the Permanent Council for the Development of National Production in Egypt, on the utilization of the water of the Jordan river and its tributaries. Professor R. W. Sloane next talked about the service laboratories and consultation facilities in the Faculty of Engineering. His talk was followed by a panel discussion on the Engineering profession in the Middle East. Lunch at the Alumni Club preceded the afternoon Dedication ceremony of the Bechtel Engineering Building. The Homecoming ended in a glittering dinner and ball at the Bristol Hotel.



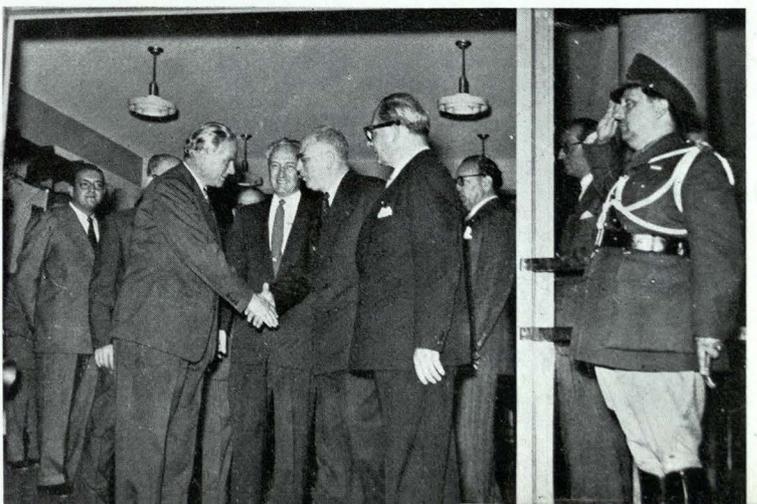
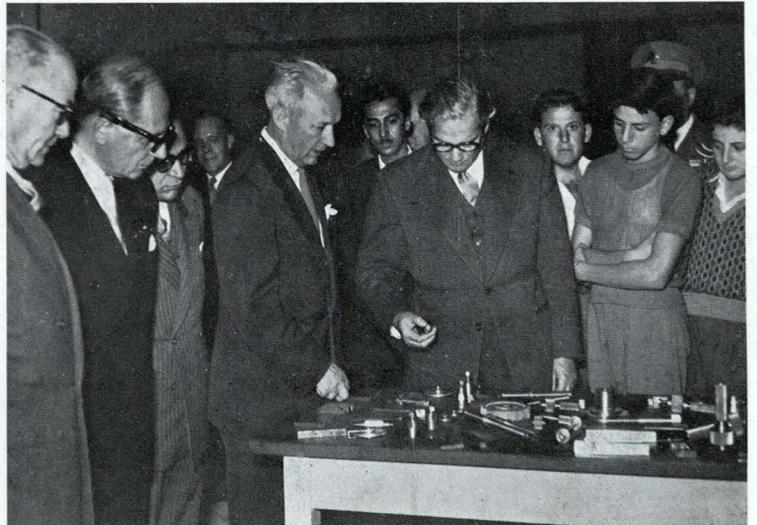




DEDICATION OF THE BECHTEL ENGINEERING BUILDING

A memorable climax to this year's Engineering Alumni Homecoming was the inauguration of the Bechtel Engineering Building which took place on Saturday, April 16th, 1955. Over 500 guests including faculty and administration members were present to watch Lebanon's President Camille Chamoun cut the ribbon to declare the building officially open.

After the dedication of the building the President of the Republic was shown around the new school by Dr. Zurayk and Dean Weidner. Other guests, split up into groups, were shown around by various Engineering faculty members and students.





H.D.

This year of 1955 marks the formal retirement of PROFESSOR IVAN RUBINSKY, Professor of Engineering Sciences of the Faculty of Engineering and former teacher of most of the A.U.B. Engineering graduates. At Homecoming, the announcement was made of the appointment of Professor Rubinsky as Professor Emeritus. He is being retained as Research Professor in the Faculty of Engineering and on this occasion three research fellowships have been opened under his chairmanship. The students of the School of Engineering have the pleasure and the honor to present here their respect to their venerable professor.

During his long stay (almost 30 years) at A.U.B. Professor Rubinsky has taught an amazingly varied number of subjects which include the following: Mechanics — Theoretical and Analytical, Engineering Drawing, Advanced Surveying and Geodesy, Practical Astronomy, Graphic Statics, Mechanism, Hydraulics, Hydrology, Irrigation, Heat and Thermodynamics; Design: in Water Supply, Central Heating and Refrigeration, and Prestressed Concrete; Laboratories: Mechanical, Hydraulic, Testing Materials, Heat & Thermodynamics; Post graduate courses: Vector Analysis, Theory of Errors, Celestial Mechanics, Hydrodynamics (Professor Rubinsky organized the Laboratories and designed most of the original equipment). In addition to this, Prof. Rubinsky is known for his activity in the fields of industry and research, representing original contributions to Physics, Mathematics and Engineering Sciences. His "Centrifugal Reaction Pump" has for many years been practiced upon by Hydraulics students. Similar pumps have also been built for animal traction and wind power. For industry he has designed an oil extraction plant and a high efficiency de-hydration plant.

During his visit to the U.S.A. on furlough in 1938-39 Prof. Rubinsky was working in his original field of Aerodynamics, carrying on research at M.I.T., and published an article suggesting "The Use of Heavy Gases or Vapors for Supersonic Wind Tunnels" (A Wind Tunnel on this Principle was later built at Langley Field, U.S.).

The next furlough in 1950-51 Prof. Rubinsky spent in Princeton University, continuing research started at the A.U.B. on the use of Fiberglass in Prestressed Concrete, and published articles on this subject in the U.S.A., Great Britain and Spain.

Along the Mathematics and Geodesy lines, he has developed and published his "Method of Deforming Vectors" and a "Mechanical Analogy in Resolving Problems of Adjusting Errors in Geodesy" — both published in France.

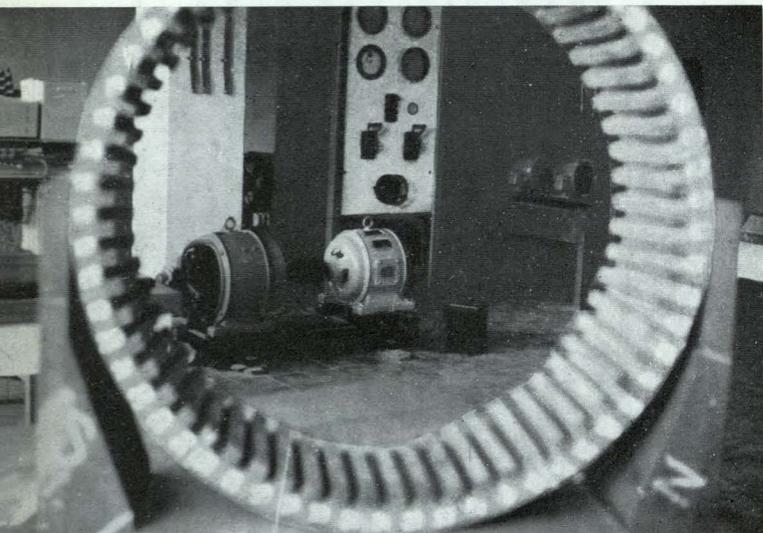
The time left over from teaching and correcting quiz papers, Prof. Rubinsky spent in designing calculating machines for solving sets of equations with many unknowns and other calculating devices: differential roller transmission, mechanical vibration amplifier, and different laboratory equipment (floating syphon for constant discharge, special clamping devices for testing materials and a dynamometer for prestressing concrete (Princeton University).

In 1930 he had also done some work in investigating and testing the feasibility of the reduction of "Skin Friction" and "Wave Resistance" of vessels by means of "Air Cushion" and "Shield Guides". Unfortunately, space does not permit a more detailed description of this and other interesting works done by Professor Rubinsky.

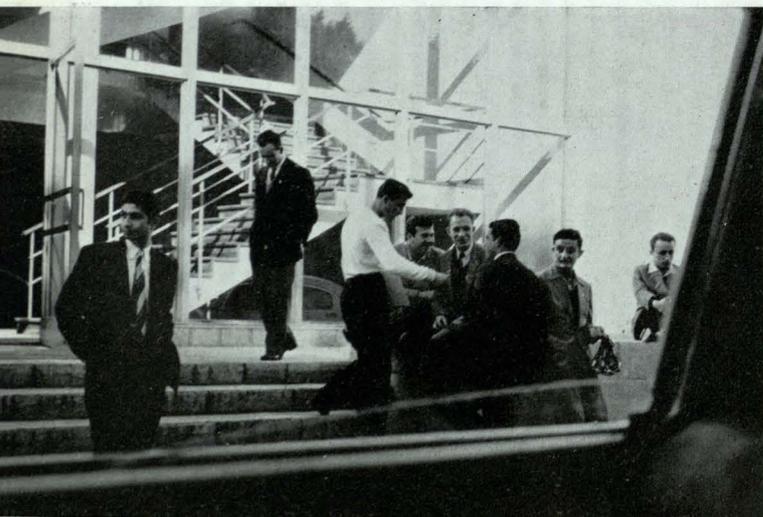
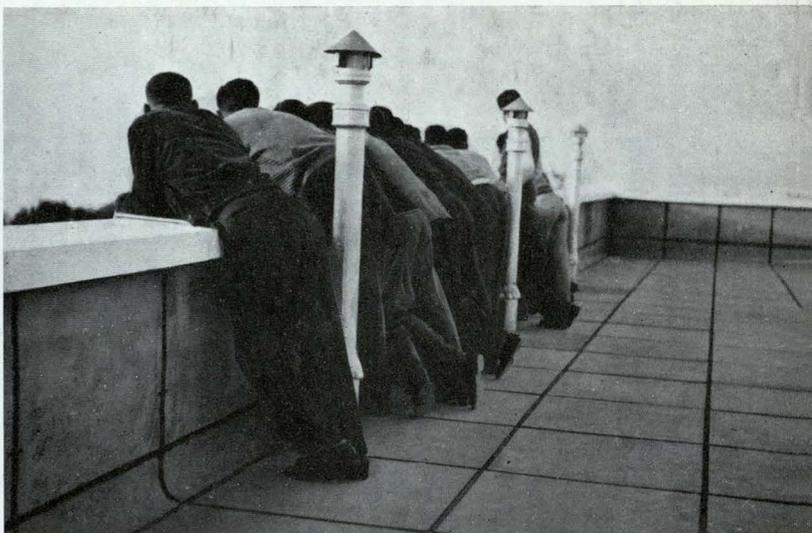


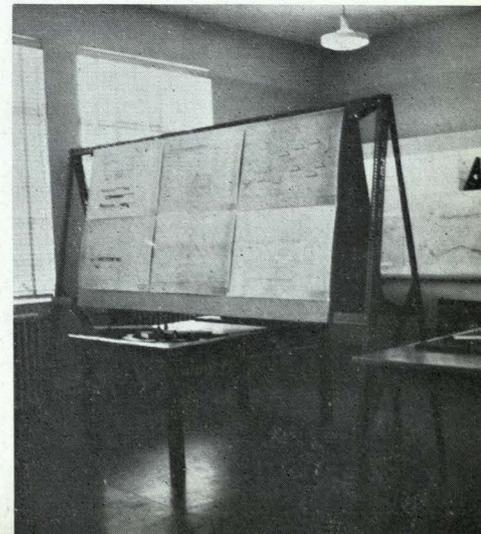
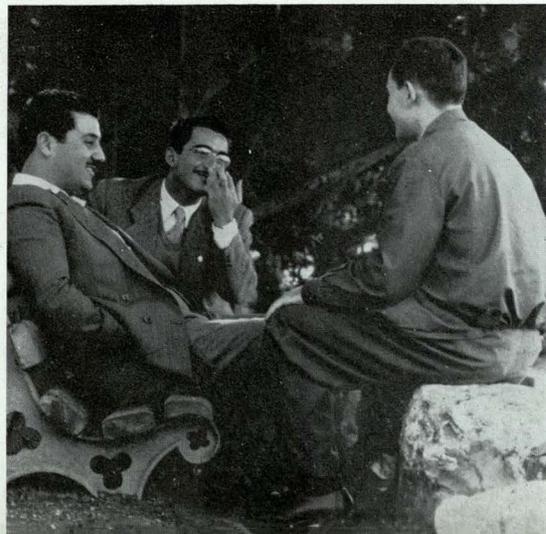
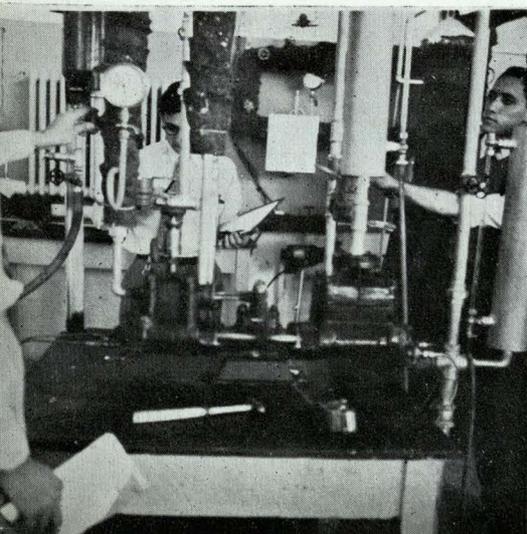
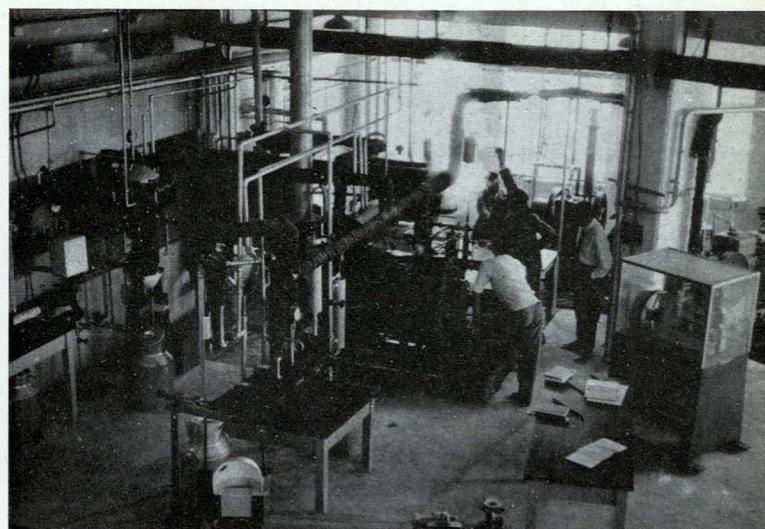
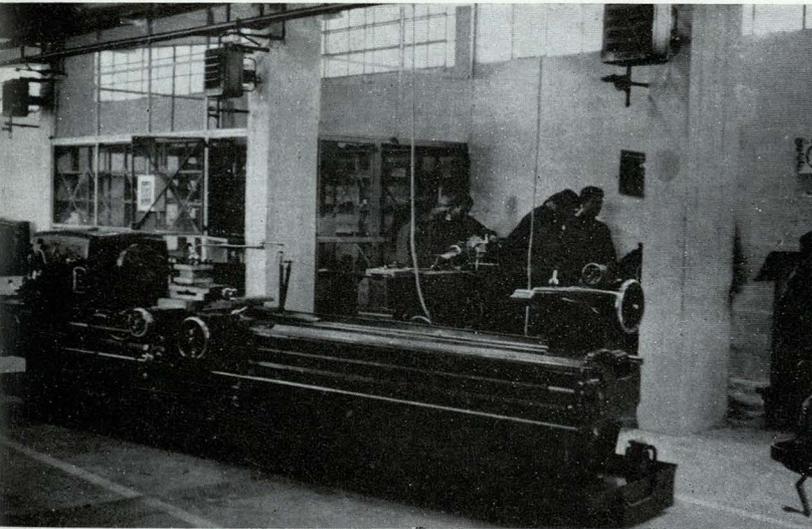
THE ENVIRONMENT

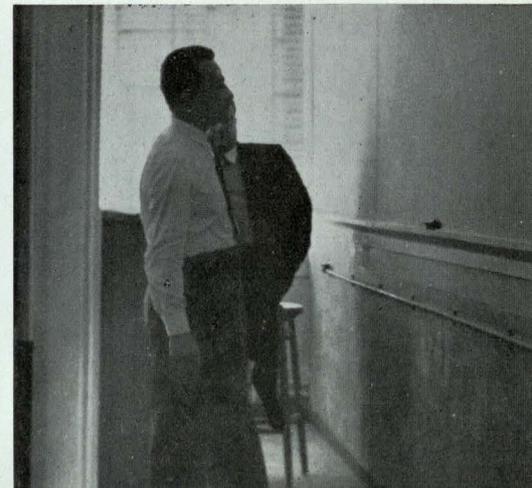
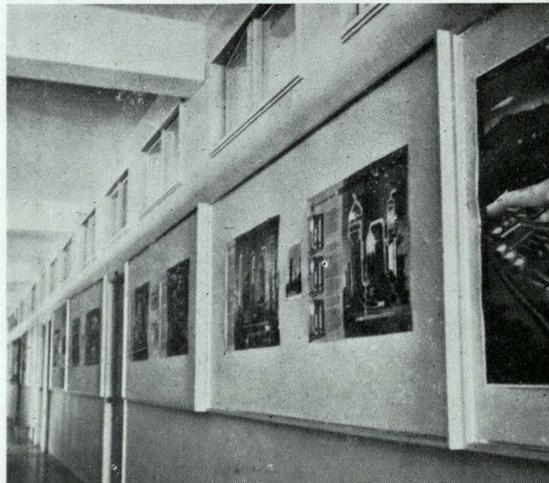
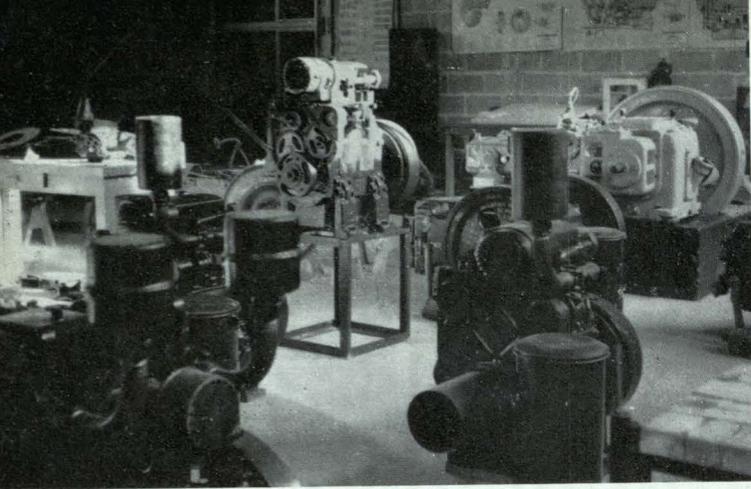
IN THE BUILDING
IN THE SHOPS
ON THE CAMPUS

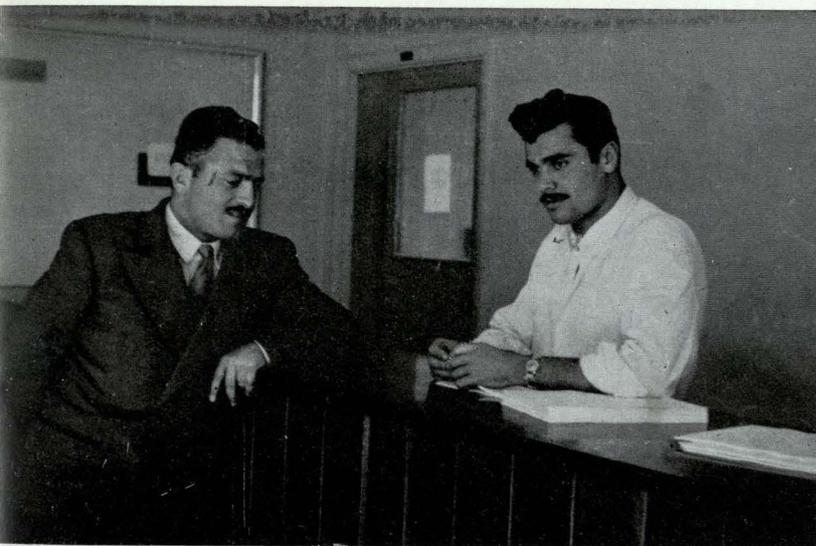


19.









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 in passive observance, but as a set of dynamic principles guiding his conduct and way of life. It is his duty to practise 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 judgement 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.)

THE ARTICLES

Girls' Acquaintance Party
General knowledge contest — Inter-class
Trip to South Lebanon
Trip to Afka
Trip to Rabbits Island
1954 and 1955 Shows
Summer Surveying Camps
Summer Shops
Qualifying Course

Their Authors

Hratch Papazian
Michel Awad
Hratch Papazian
Vasken Najarian
Ilyas Mansour
Ibrahim Resek
Munir Bulus
Izzeddine Habib
Albert Hazbun

The 1955 Engineering Homecoming &
Dedication of the Bechtel Engineering Building

*excerpted from the article "Engineering 1955
Alumni Homecoming" Al-Kulliyah, May 1955*

Letter on page 128

*Taken from a magazine the name of which
has been misplaced.*

The Yearbook Committee wishes to acknowledge the help rendered by the following students :
Vasken Najarian and Albert Hazbun for helping on the proof reading ; Wahib Hamzeh and
Antoine Gemayel for helping collect advertisements ; Fuad Nuwaysir, Adib Talmasani, Mukhtar
Malas and William Samman for contributing pictures.

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students directory

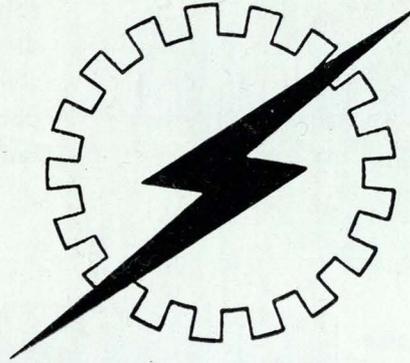
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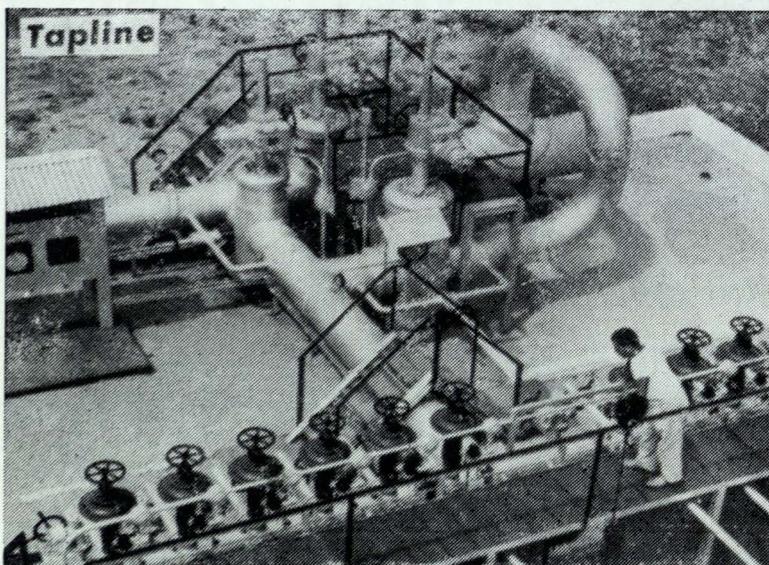
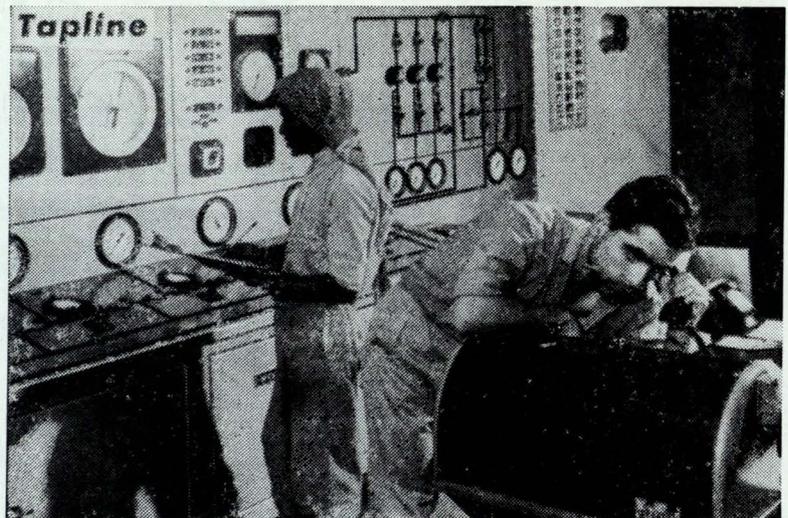


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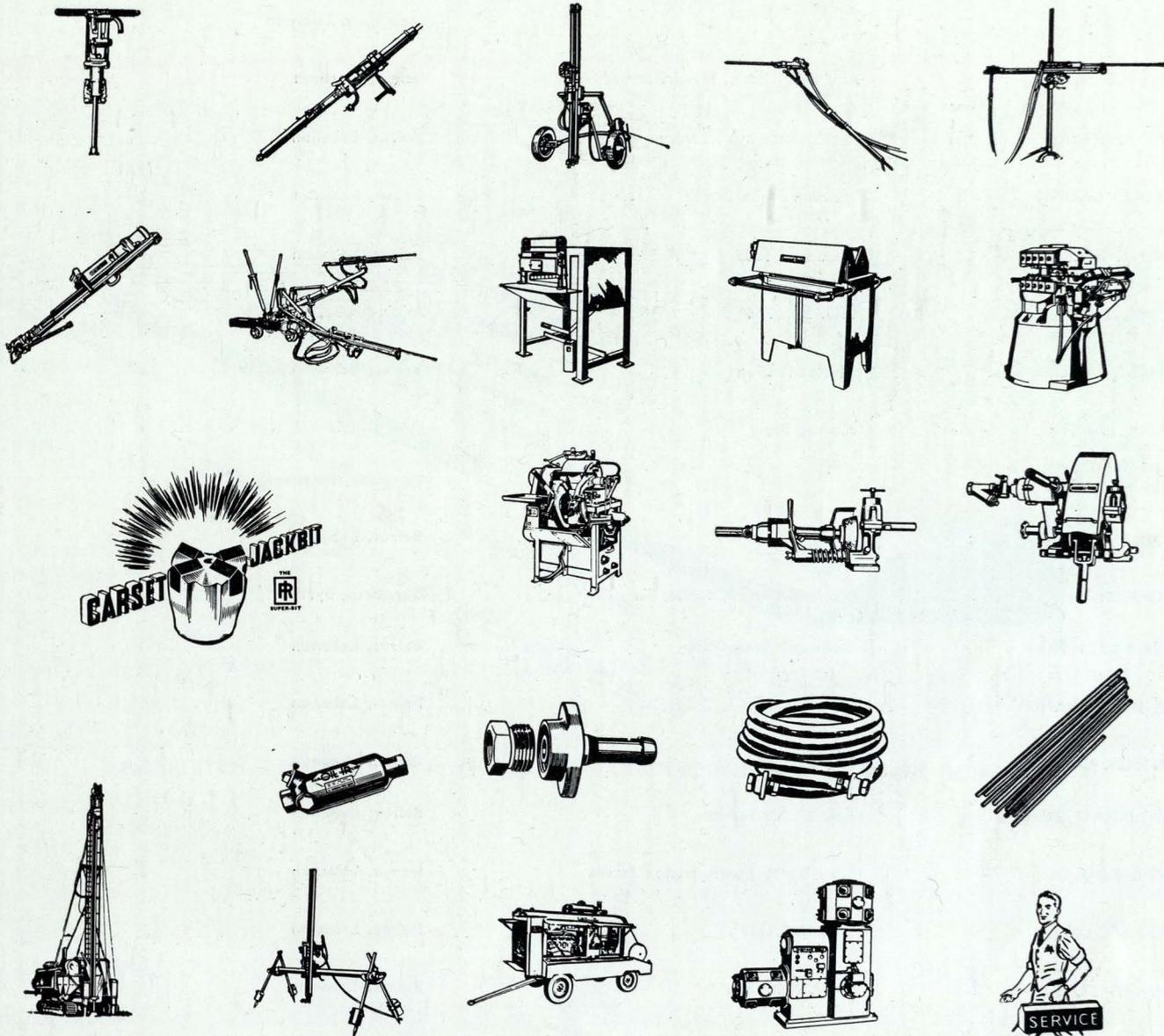
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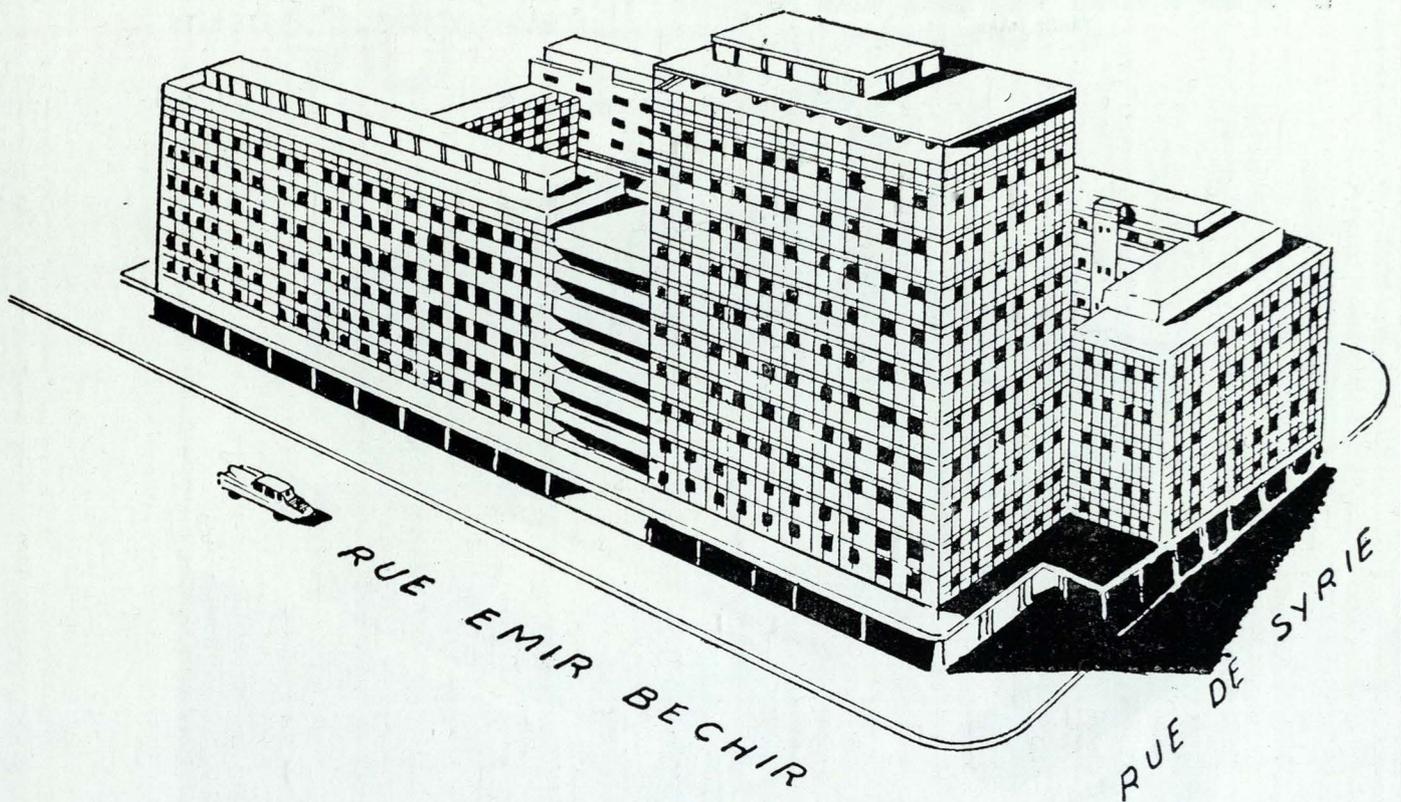
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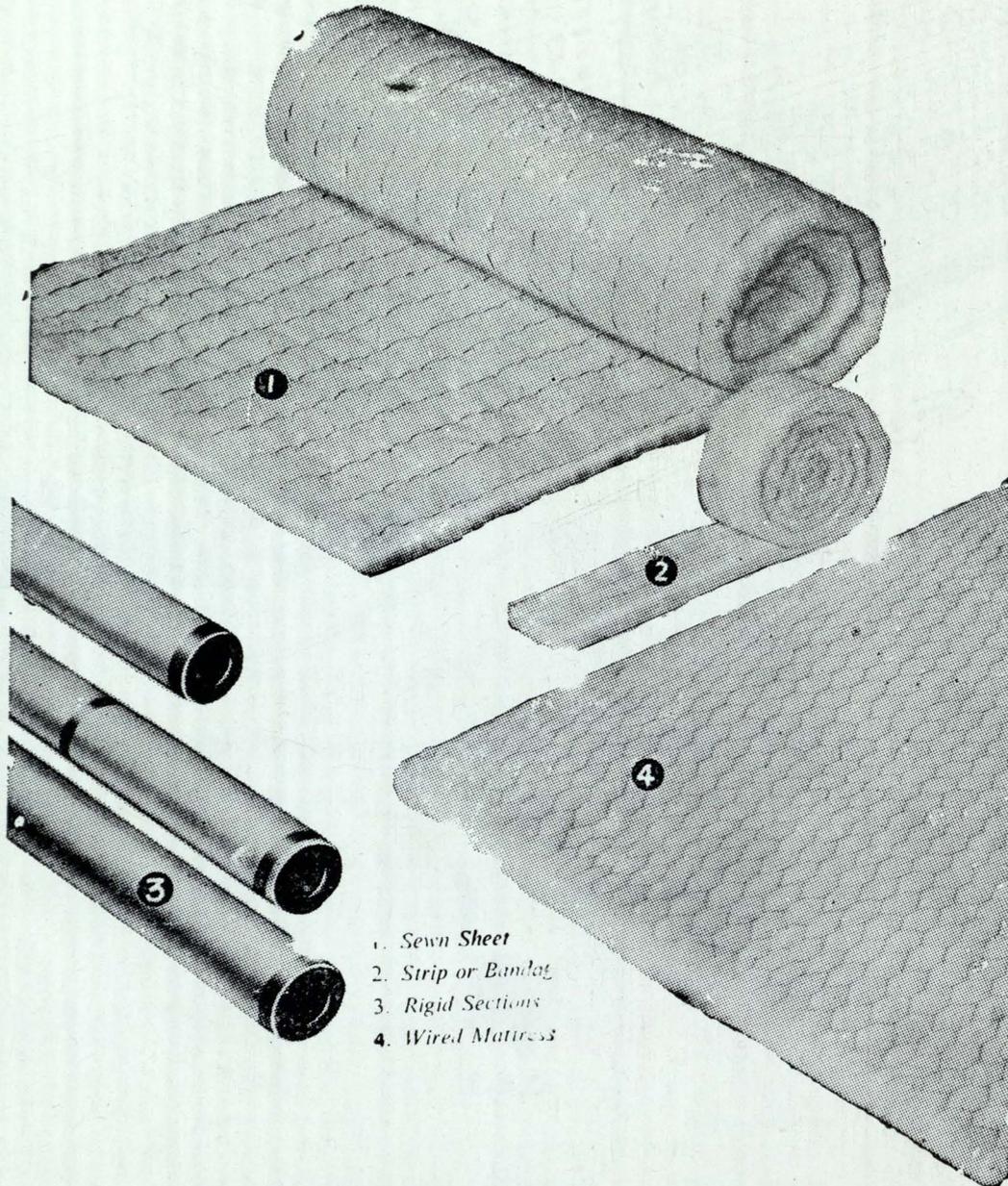
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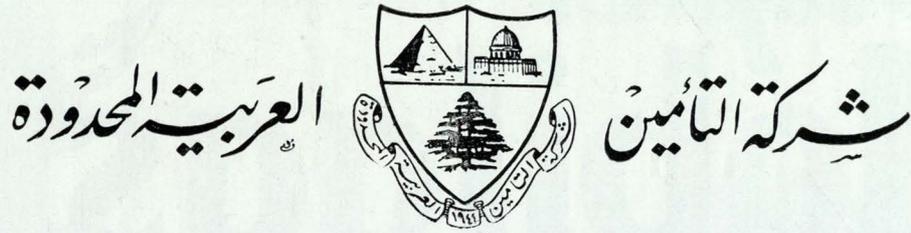
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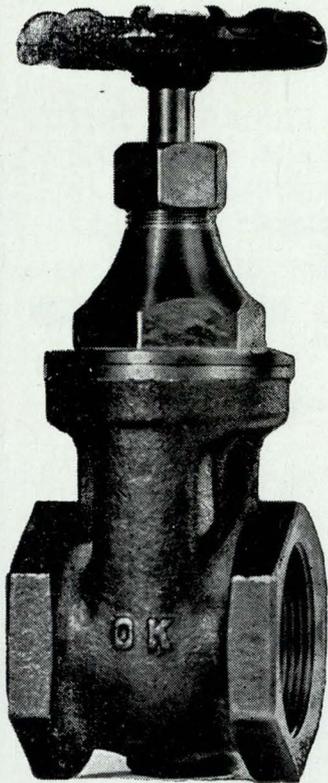
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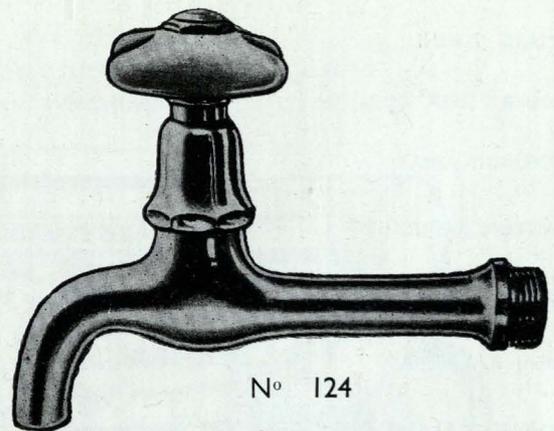


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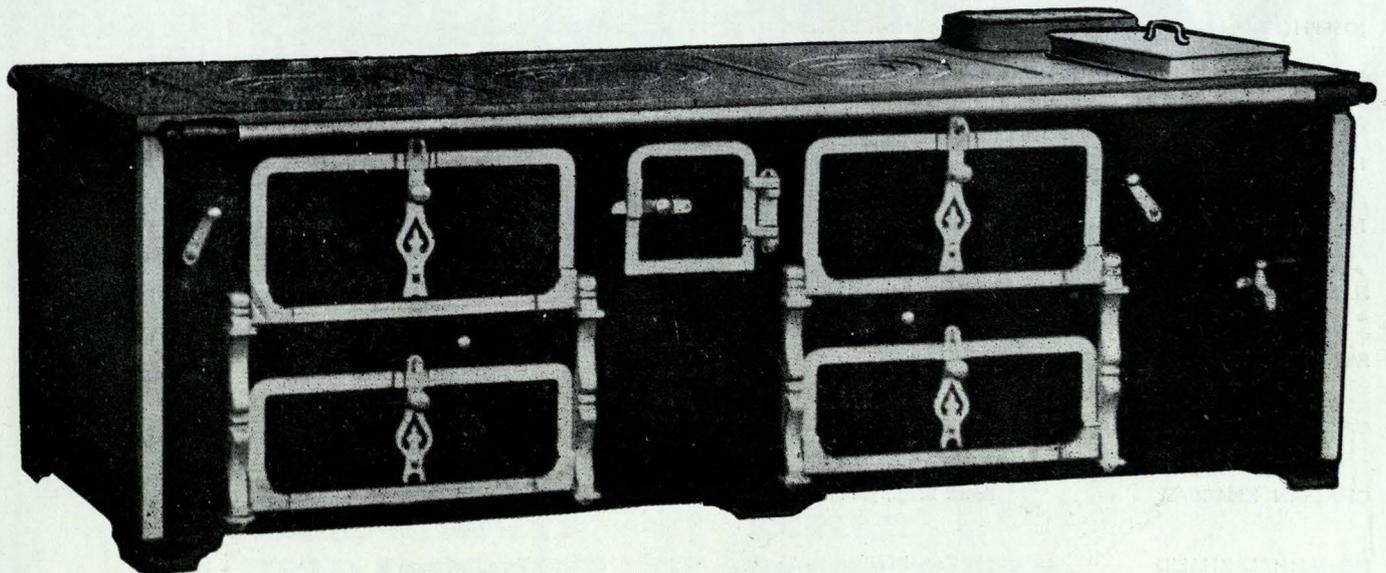
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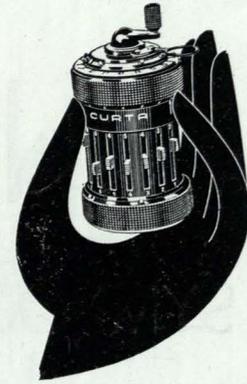
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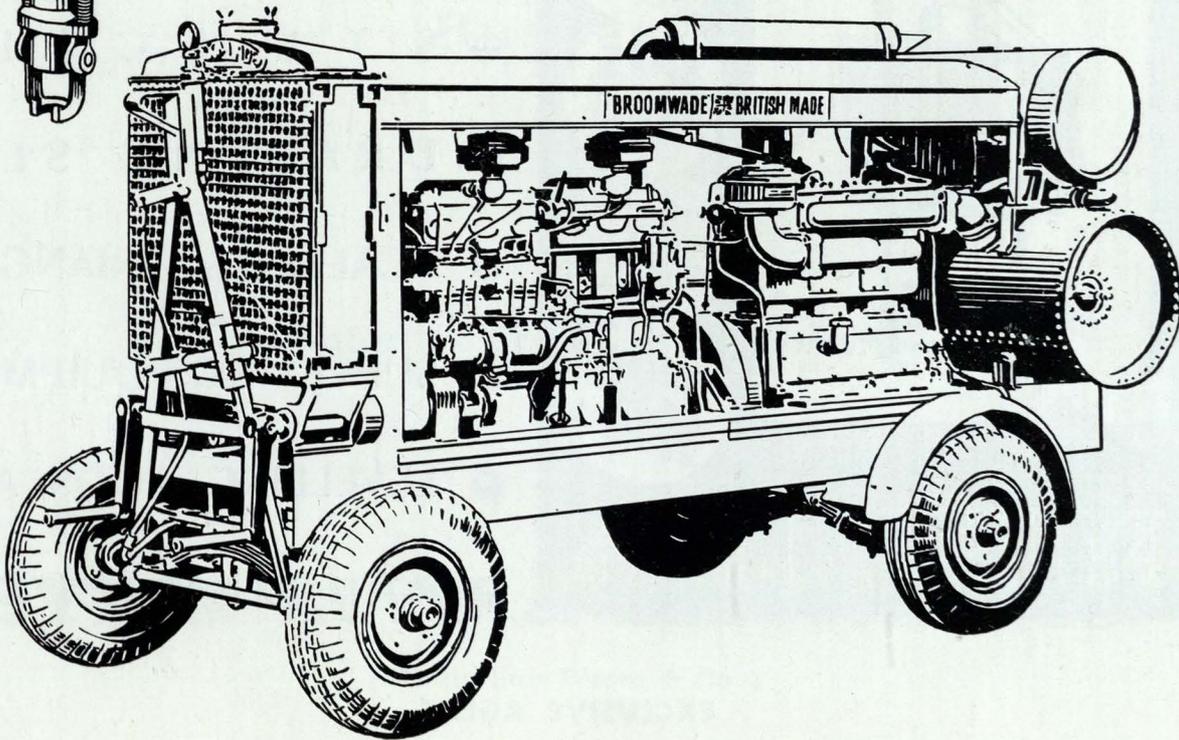
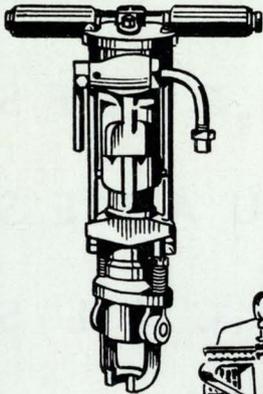
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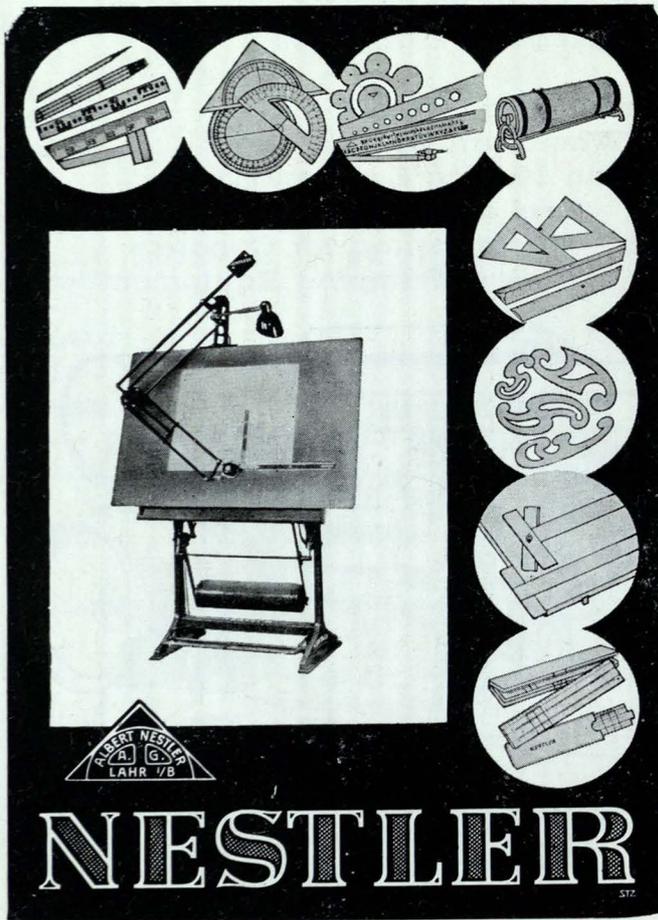
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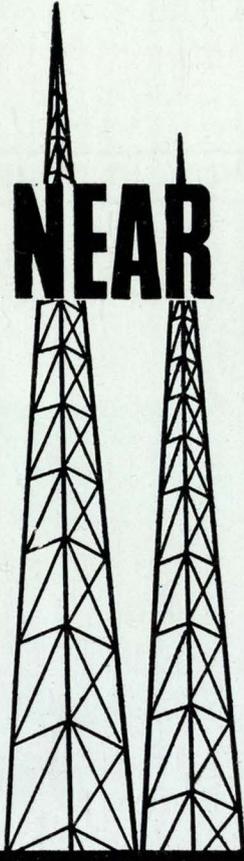
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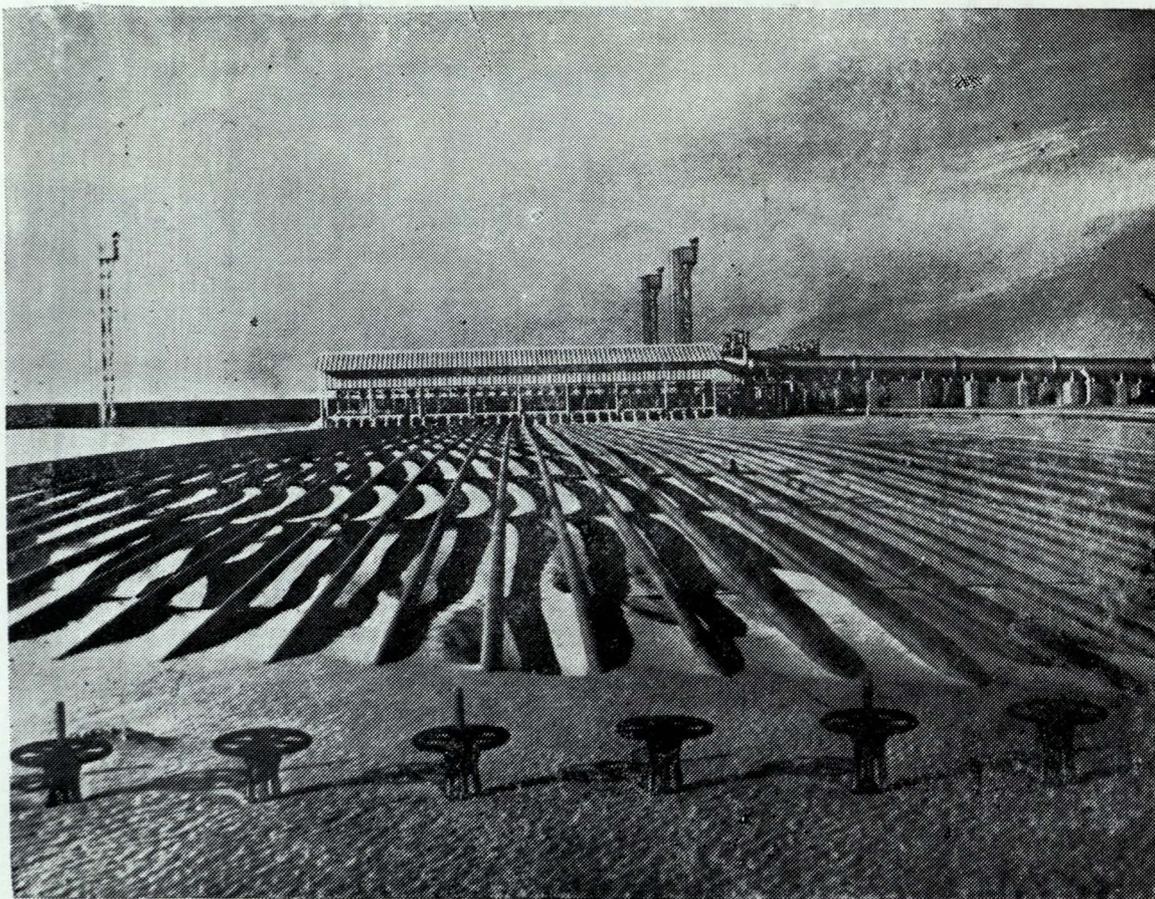


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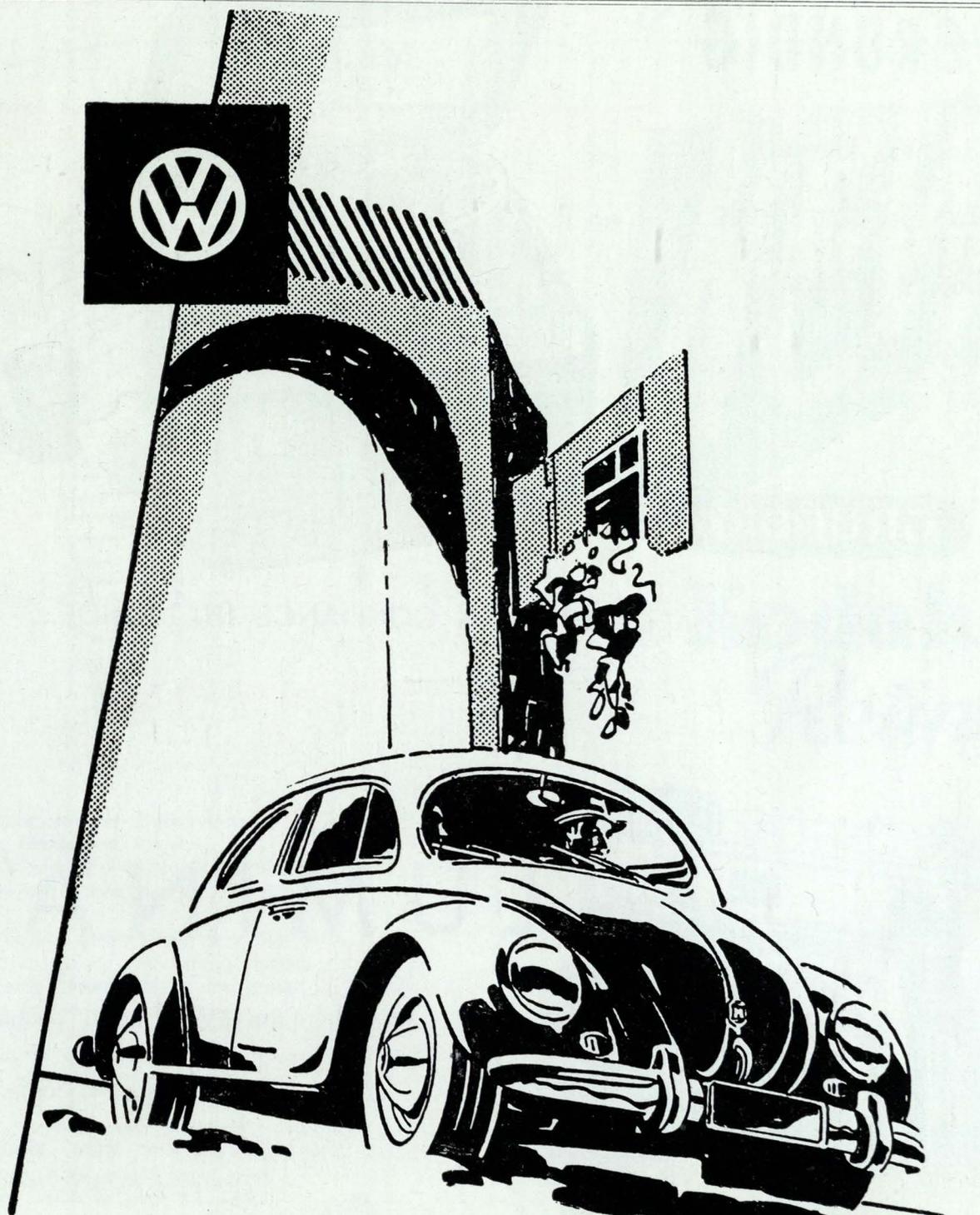
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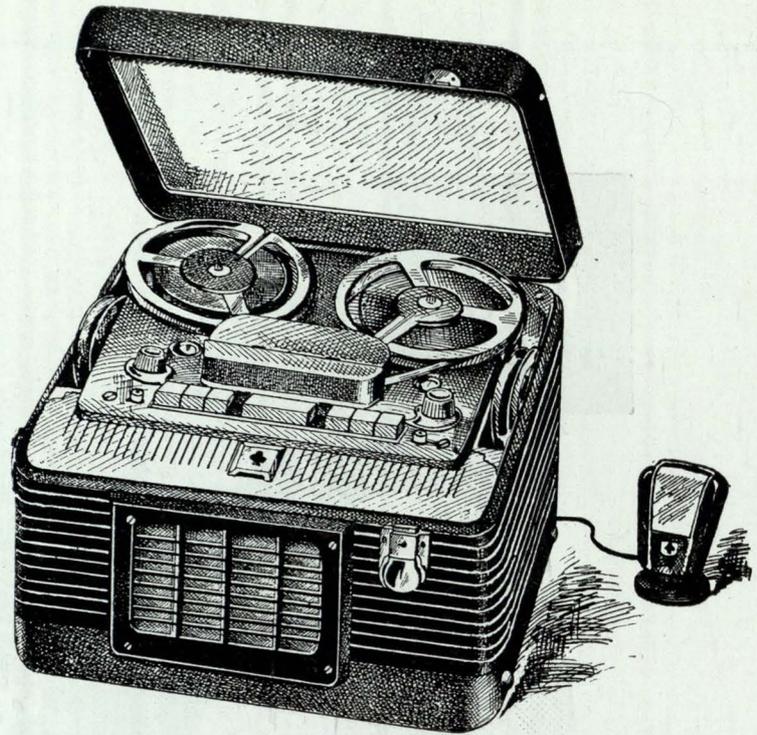
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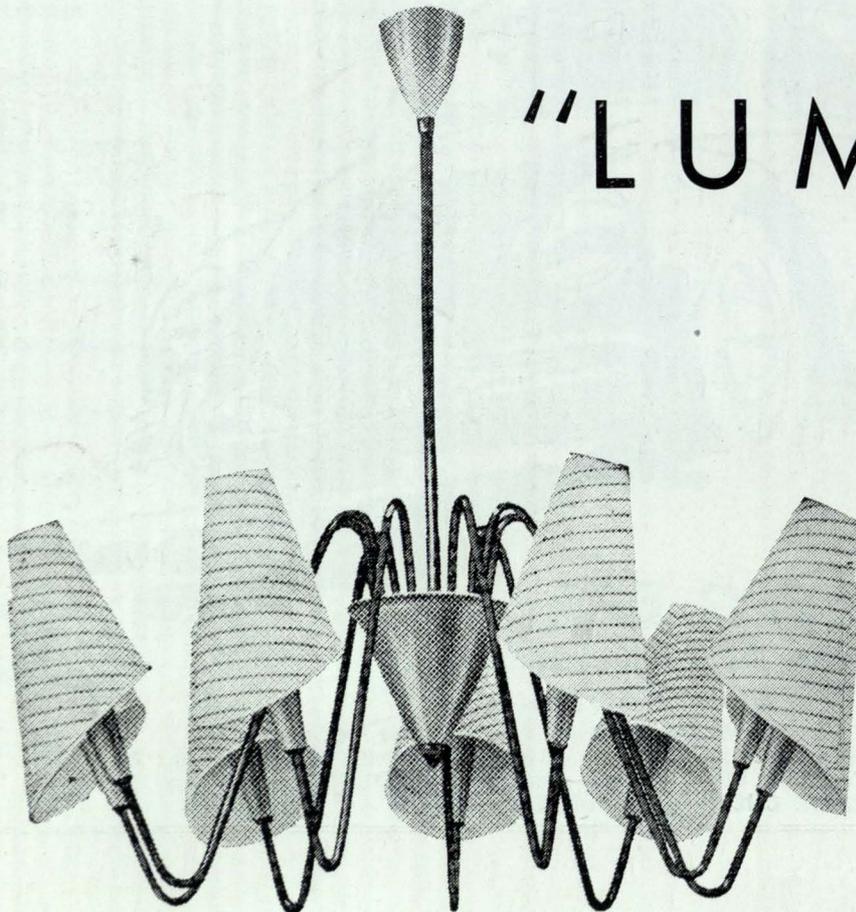
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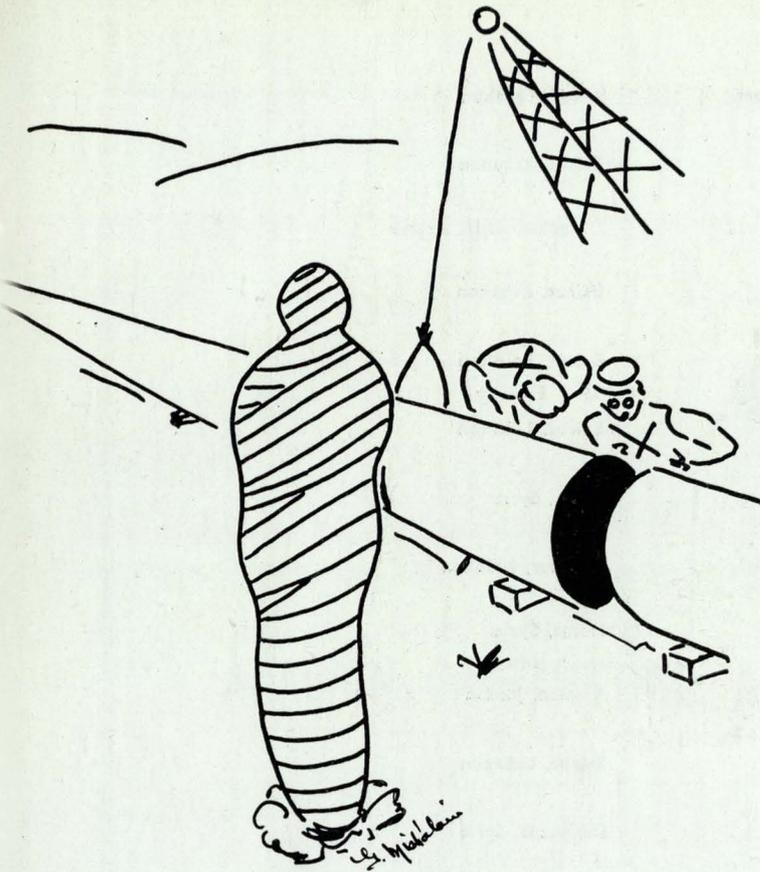
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Here's the story of Anwar Khan,
Pipeline foreman in Pakistan,
With coater and wrapper of latest type,
Put his head where you put the pipe.

It wound him through with a steady twist,
Sprayed and bound and nothing missed.
Then gently placed him on the grass,
Swathed in tar and Fibreglass.

He said "Cor, blimey, stone the crows,
I'm all bound up from head to toes,
Just as stiff as a tailor's dummy,
Like a flippin Egyptian mummy."

But Anwar Khan would never shirk
And soon continued with his work
His feet stuck firmly in a hole,
All the world like a totem pole.

And as the pipeline gained in length,
His call to duty gained in strength:
A group of coolies moved him for'd,
Like a peg in a cribbage board.

And now the Company proudly shows,
As its wordly goodwill grows,
A foreman who will never shirk,
So wrapped up is he in his work.

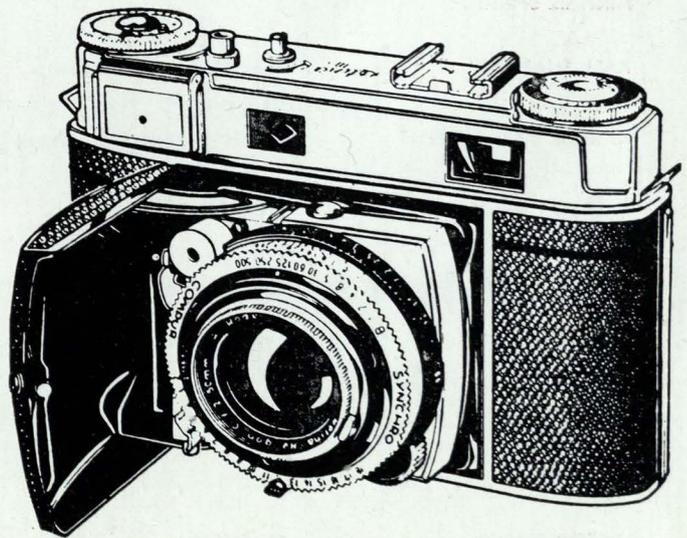
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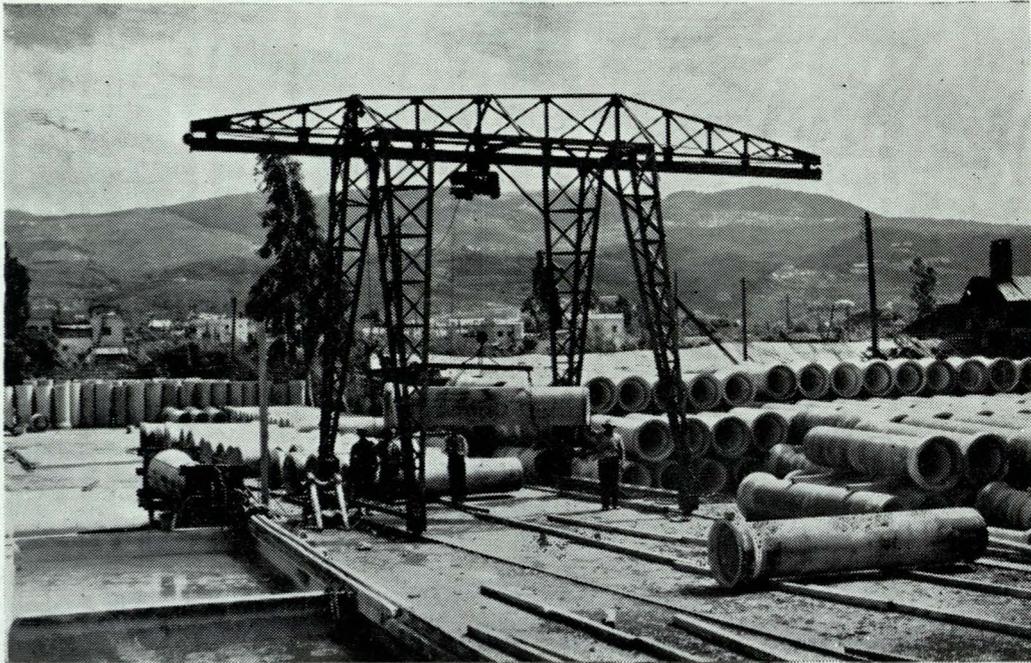
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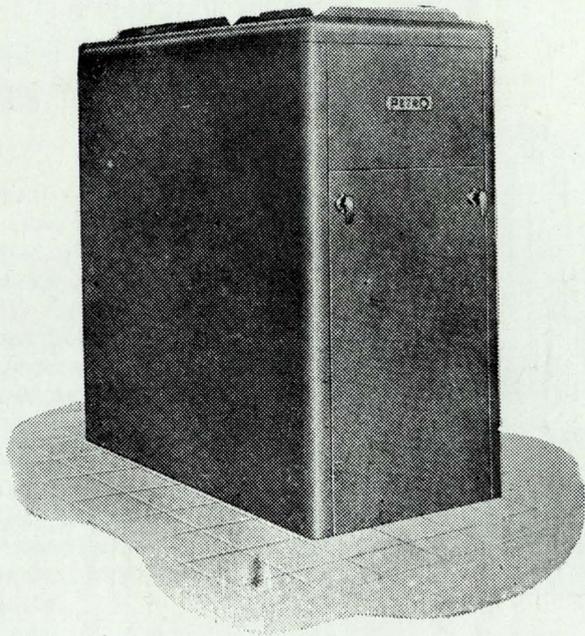
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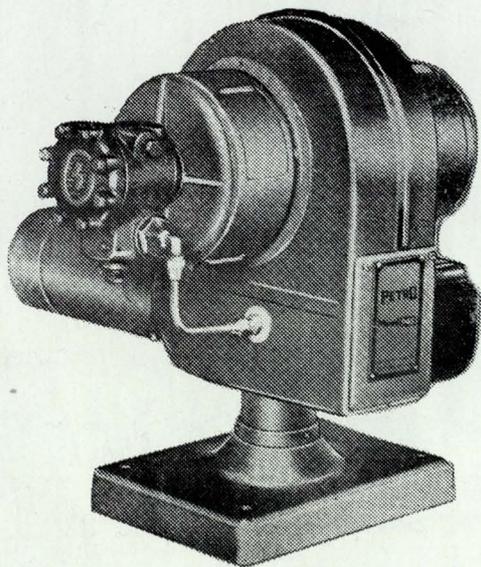
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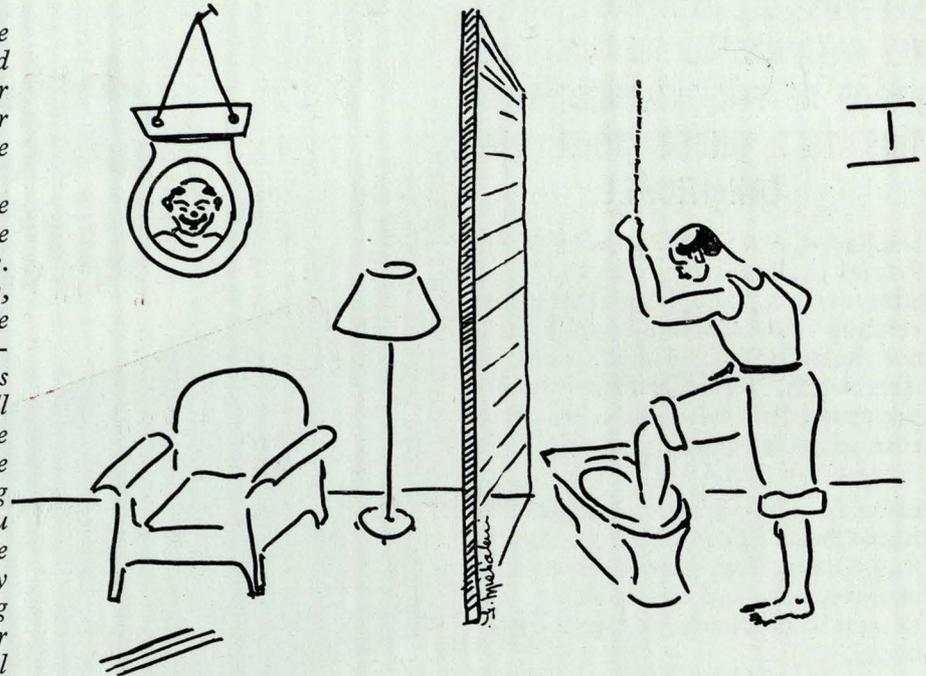
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Drink Coca-Cola

The following letter is said to have been received by a son of old Ireland whilst he was employed on a major contract at Liandarcy. We have our doubts about its authenticity but we think you will find it amusing :

"Your Pa has a good job now, the first he has had in 48 years. We are a grate deal better off then we were. Your Pa get £ 7 every Thursday, so we thought we would do a little fixing up. We sent to Munster Builders for one of the newfangled things they call bathrooms you hear tell about in some houses. It's put in shape by a man called a plumer. On one side of the room is a big long thing like the pigs dring out of, only you get in that and wash all over. On the other side is a little white thing they call a sink. This is for light washing such as your face and hands. But over in the corner, my, son, now I'll tell

you we've really got something there. This little contraption you put one foot in and wash it clean then you pull a little chain and you get fresh water for the other foot. Two lids came with the derved thing, and we ain't had any use for them in the bathroom, so I'm using one for the bread-board, and the other had a round hole in it and we took in and framed grandfather's picture. They are awful nice folk to deal with, they sent us a big roll of writing paper with it. Take keer of yourself."



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Signed

(Mr. Good Engineer)



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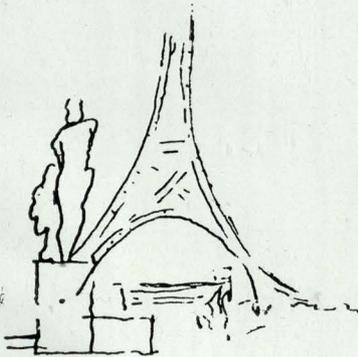


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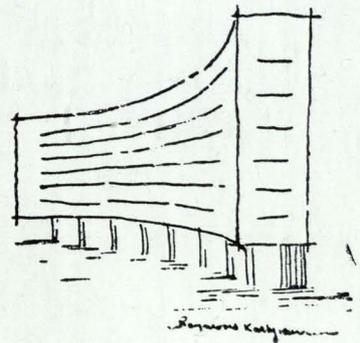
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