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Technion, 1960-1963.

American Society for



TECHNION-

ISRAEL INSTITUTE OF TECHNOLOGY, Inc.

NATIONAL OFFICE: 1000 FIFTH AVENUE • NEW YORK 28, NEW YORK

Telephone: TRafalgar 9-8400

December 7, 1960

MEMORANDUM

TO: Chapter Chairmen, Officers and Directors
of the American Technion Society

FROM: Public Relations Department

We would like to keep our biographical files up to date, and would therefore very much appreciate receiving from you, at your earliest convenience, a current, up-to-date biographical sketch of yourself, together with a glossy photograph.

Your cooperation would be greatly appreciated.

Sincerely yours,

David C. Gross

David C. Gross

December 14, 1960

Mr. David C. Gross
American Society for Technion
1000 Fifth Avenue
New York 28, New York

My dear Mr. Gross:

I am enclosing the latest glossy of Dr. Silver as well as an up-to-date biography.

Sincerely yours,

Beatrice F. May (Mrs.)
Secretary to Dr. Silver

ENCLOSURES

American Society for



TECHNION-

ISRAEL INSTITUTE OF TECHNOLOGY, Inc.

NATIONAL OFFICE: 1000 FIFTH AVENUE • NEW YORK 28, NEW YORK

Telephone: TRafalgar 9-8400

May 4, 1961

Dr. Abba Hillel Silver
The Temple
East 105th St. & Silver Park
Cleveland 6, Ohio

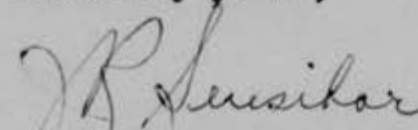
Dear Dr. Silver:

It is with sincere thanks and deep appreciation that we acknowledge receipt of your check in the amount of \$1,000 as a payment on your pledge toward our campaign for Greater Technion, Israel Institute of Technology. An official receipt is enclosed.

Your interest in Technion and your devotion to our work are well-known to us and we do appreciate your generous support.

Thank you very much for your fine support and understanding.

Cordially yours,


J. R. Sensibar
President

JRS:eg
enc.



הטכניון - מכון טכנולוגי לישראל
TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY
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Haifa, June 20th, 1963

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מזכיר
קרל אלפרט

Dr. A. H. Silver,
The Temple,
East 105 St. at Ansel Rd.,
Cleveland, Ohio.

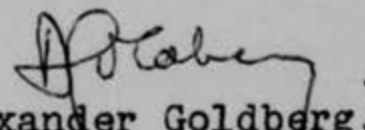
Dear Dr. Silver,

It is with great pleasure that I inform you that the Board of Governors at its annual meeting on June 13th, 1963, unanimously re-elected you a member of the Board for an additional three year term. We regret that you could not be with us for this year's meeting, but are confident that you will continue to play an active part in Technion affairs, and to give the Institute the same full measure of cooperation and support as in the past.

The minutes of the Board sessions will be sent to you as soon as they are completed, and I am sure you will find the record of the discussions and resolutions of great interest.

Please accept my kindest regards and best wishes.

Sincerely yours,


Alexander Goldberg,
Chairman, Board of Governors.

TECHNION *Review*

SUMMER 1963



TECHNION

Review

Summer 1963 Vol. 14 No. 2

Published by
**AMERICAN
TECHNION
SOCIETY**

American Society for Technion
—Israel Institute of Technology
Inc.

1000 Fifth Avenue
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TRafalgar 9-8400

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Briefly Noted . . .

PSYCHOLOGY: Prof. Nicholas H. Pronko, head of the Department of Psychology at Wichita University in Kansas, is lecturing this semester in the Department of Industrial and Management Engineering, through a fellowship established by the Edmond James de Rothschild Memorial Group . . . **ROCKETS:** Shavit type rockets will be used to probe the upper atmosphere in the framework of a special research project conducted by the Israel Astronautical Society and Technion. The announcement was made by Jerome Shafer, Chairman of the Israel Astronautical Society and Senior Lecturer in the Department of Aeronautical Engineering . . . **PERIODICALS:** There are now 210 scientific periodicals published in Israel, most of which began publication during the last two decades. Seventeen of these journals are in foreign languages, including two in Arabic . . . **UNITED NATIONS:** Israel was one of the most active participants in the recent United Nations Conference on the Application of Science and Technology in Newly-Developing Countries, which took place in Geneva. A total of 33 original papers was presented by the Israel delegation, which covered a wide range of subjects, including water legislation, development of mineral resources, vocational education, crop rotation, agricultural cooperatives, balanced food technology and the planning of health services. Among the Technion faculty members in attendance were Dr. G. Zimmerman, of Food Technology, Prof. R. Shalon, Building Research, Dr. G. Kassiff, Soil Mechanics . . . **VON KARMAN:** The Society joins the entire world in mourning the death of Dr. Theodore von Karman, probably the world's outstanding aeronautical scientist and the first recipient of the National Medal of Science, presented by the United States for "leadership in science and engineering of aeronautics". Dr. von Karman was a Sponsor of the American Technion Society and also held an Honorary Doctorate from the Technion . . . **HONORS:** A.T.S. extends its heartiest felicitations to two of its staunchest friends and benefactors who have been honored for their communal and public-spirited work. A Doctorate in Humanities was bestowed upon Samuel Fryer by the University of Judaism in Los Angeles, while a Doctorate of Engineering was conferred upon Joseph W. Wunsch by the Polytechnic Institute of Brooklyn.

THE COVER

Commencement exercises held at Technion City in May featured the conferral of Doctorates of Science on fourteen men and women who completed their Graduate School work. Shown with the new Ph.D.'s are, seated fourth and fifth from the left, the outgoing Dean of the Graduate School, Prof. Rahel Shalon, and her successor, Prof. Nathan Rosen.

A total of 586 degrees were conferred at this year's graduation ceremonies. The graduating class included a 45-year-old student who earned a Bachelors degree in physics, and Dorcn Ravdin, a mathematician, who is the great-grandson of K. Wissotzky, the famous Russian tea merchant whose gift in the early 1900's made possible construction of Technion's first building in what is now downtown Haifa.

Shown below the photo of Ph.D.'s is a scale model of the Senate House, a project of the British Technion Society, which will house Technion's administrative headquarters and which is scheduled for completion next year.

Technion Maintenance Budget Reaches IL 16,000,000; Dori Urges Israel Government to Cover Two Thirds

Delegates from the United States, Canada, Britain, South Africa and Argentina — as well as Israel — attending the annual sessions of the Board of Governors of the Technion adopted a record maintenance budget of IL. 16,000,000 (\$5,333,333) for the coming year.

The Board called upon the Government of Israel "to implement the many declarations of encouragement and support" made by various Ministers "to enable the Technion to fulfill its functions in the economy of Israel, not only as the sole source of domestically-trained engineers, technologists and architects, but also by making available modern technological resources to industry and Government institutions."

The Board of Governors urged the Government to assume the chief responsibility for the maintenance budget of the Technion "by providing at least 70% of the budget during the next five years". Only participation of this magnitude would "make it possible for the Technion to plan its academic development to the end of meeting the needs of the country". On the basis of the budget for 1963/64, this percentage would amount to IL. 12,000,000 per year.

The Board of Governors noted with satisfaction the preparation of a New Master Plan for Technion City, details of which are expected to be fully worked out during the coming year. The building program for the year, financed by a special Development Budget, includes the Central Library and Senate House, which are already under construction, the Students Union Building and Central Restaurant, and the first phase of the Agricultural Engineering Building and the Institute of Microbiology building.

Earlier, General Dori, President of the Institute, citing the need for increased Government support for the Technion's maintenance budget — as contrasted to the Institute's development budget, which is primarily the responsibility of the American Technion Society, and sister societies in the free world — said that the Israel Government should regard the Technion "not as an institution which it aids, but one that it maintains."

Gen. Dori said that highlights of recent achievements included the introduction of the program of studies in the humanities, the acquisition of the Elliott 803 electronic computer which has recently been installed at Technion, the beginning at the Technion of the Department of Life Sciences, the special course in agricultural engineering for students from developing countries in Africa and Asia, and the special preparatory course for youths of Sephardic origin.

Turning to the future of the Technion, Gen. Dori said that the tasks that devolve upon the Institute were twofold: to educate engineers and applied scientists for all branches of Isra-

TECHNION CONFERS DEGREES ON DR. I. I. RABI, J. R. SENSIBAR

Dr. Isidor I. Rabi, the Nobel Prize physicist, and Jacob R. Sensibar, world-renowned engineer, were awarded Honorary Doctorates by Technion during the Board of Governors session.



I. I. Rabi



J. R. Sensibar

Dr. Rabi was honored for his lifelong contributions to science. He delivered a paper on "The Place of Science in Public Policy," the first of a series of annual lectures designed to "bridge the gap between Science and the Humanities." The annual lectures were established by Dr. Joseph W. Wunsch, A.T.S., Honorary President.

Mr. Sensibar was honored for his "engineering achievements which have contributed to the development of Israel and for his services in promoting the best interests of the Technion in Israel and abroad." Mr. Sensibar is currently supervising a large-scale expansion program at the Dead Sea in Israel, which will quadruple Israel's export of potash, bromine and other chemicals and minerals.

el's economy, and to assume the task of providing the technological processes for the development and strengthening of industry, the national services and the country's defenses.

"It is therefore necessary that this institution must be completed, improved and its potential increased so that it may meet the tests which face it". One of the results of Technion's growth and development in meeting the nation's needs was an increasing deficit which by the end of this academic year will have accumulated to IL.5,200,000, he said.

"The fact is that the Technion can not be restricted to marking time," Gen. Dori emphasized in his report.

Planning Conference Held by ATS in Chicago; Delegates from All Parts of U. S. Map Plans for Continued Development of the Technion

One of the most memorable meetings ever carried out under the auspices of the American Technion Society was held recently in Chicago when delegates from communities across the nation gathered together for three days of deliberations.

The extraordinary gathering, officially described as the National Planning Conference of the Society, sought to find ways and means of accelerating the growth of A.T.S. so that it can contribute ever-larger support to the advancement of the Technion in Haifa, and so that the Technion in turn can fulfill its historic mission to build and strengthen Israel.

For many delegates, the Conference was an occasion for nostalgic recall of the early beginnings of the Society. For others, there was a reminder of the great reservoirs of strength that exist throughout the country and that wait to be tapped for the future of Technion.

The Conference opened on Friday morning, heartened by a message from the White House, conveyed through President Kennedy's Special Assistant for Scientific Affairs, Dr. Jerome B. Weisner, and from Prime Minister David Ben Gurion, from Jerusalem. Speakers at the morning session included David Rose, Chairman of the Board; David Riff, President of the Chicago Chapter, the Hon. Jacob Barmore, Consul-General of Israel for the Midwest; and B. Sumner Gruzen, President of the Society.

A special guest at the Conference, who had come directly from Haifa expressly for the purpose of joining in the Society's deliberations, was Gen. Yaacov Dori, President of the Technion, and Mrs. Dori. Gen. Dori presented a sobering review of the security needs of Israel, and underlined the importance of unceasing scientific and technological education to Israel. He lauded the American Technion Society for its historic contributions to Israel and to Technion and voiced the hope that in the years ahead "new leaders will come forward to continue the work that was born in hope and that must be nourished with love for Israel."

At the afternoon session, devoted to a review of the Society's fund-raising programs and presided over by Col. J. R. Elyachar, representatives of five regions outlined their communities' programs and problems in raising funds for A.T.S. The speakers at this session were, in addition to Col. Elyachar, Victor Tabah, West Coast; Samuel Bernstein, Midwest; Max Seltzer, New England; Mrs. Bess

Glasser, Southern Region; and Maurice M. Rosen, Eastern Seaboard.

Representatives attending the Conference were able to learn of various methods employed in different parts of the country and to consider the adaption of these techniques to the needs of their own communities.

At the luncheon session the following day, Joseph G. Reisman of Boston, A.T.S. Vice-President, presided and said that it was a signal honor for him to introduce the session's principal speaker, Jacob R. Sensibar, who served for the last three years as President of the Society. Mr. Sensibar, who had just returned from one of his frequent trips to Israel, delivered an illuminating report on the work of his company at the Dead Sea, where special dikes are now being constructed which will quadruple the production of chemicals and minerals for that ancient site. He also presented a keen analysis of the potential value of the Dead Sea's chemical and mineral exports against the background of Israel's unique economic problems.

Later in the day, at an Oneg Shabbat session devoted to a review of the Technological Department, Benjamin Cooper, A.T.S. Vice-President, presided over reports dealing with various aspects of this department's work. These included a summation of the work of the Patents Committee delivered by Dr. William Fondiller; the Apprentice Training Program, presented by Martin Jelin; the Research and Development Program, presented by Professor Sebastian B. Littauer, and the Technological Conferences, presented by Gordon B. Sheman.

A reception in honor of Gen. and Mrs. Yaacov Dori was tendered in the evening by the Chicago Chapter of the Society. On Sunday morning, bright and early, delegates were back to work and by lunch time had listened to an opening talk by Joseph E. Mitchell, A.T.S. Vice-President, of Los Angeles; a review of the work of the Society from its very beginnings, given by Dr. Joseph W. Wunsch, A.T.S. Honorary President; reports on the National Women's Division, the Canadian Technion Society and the Young Adult Program in Chicago, presented by Mrs. Herman J. Leffert, D. Lou Harris, and Dr. Daniel D. Howard, respectively. The delegates also heard reports on the Society's program of encouraging bequests for Technion, given by Murray Rubein, A.T.S. Vice-President, and a report

THE WHITE HOUSE
WASHINGTON

President Kennedy has asked me to convey his warm greetings and best wishes to the American Technion Society on the occasion of its National Planning Conference of 1963.

The Technion-Israel Institute of Technology - - the oldest institution of higher learning in Israel - - has long gained world-wide reputation for its advancement of science and education. As Israel's only institute for the training of engineers, the Technion is now also contributing vitally to the economic development of the country. It is inspiring to observe the enthusiasm and professional excellence that the Institute's faculty and students, and the staff of the Technion Research and Development Foundation, devote to a rapidly-broadening spectrum of applied research. These efforts will, I am confident, be of unique and increasing value in the rapid and fullest development of Israel's human and natural resources, industry, and agriculture.

It is encouraging also to see the close and active collaboration between the Technion and its sister institutes, the Hebrew University of Jerusalem and the Weizmann Institute of Science. We salute the free spirit of learning, research, and innovation that permeates them all.

The new and beautiful campus atop Mount Carmel, which I have had the pleasure of visiting, symbolizes the Technion's growing importance to Israel and the world at large. We wish you every success in the larger and crucial tasks before you.

of the National Finance Committee presented by Harold E. Beckman, A.T.S. Treasurer.

The luncheon session on Sunday, presided over by Maurice M. Rosen, Eastern Seaboard Chairman, was to have heard from Israel's Ambassador to the United States, Avraham Harman. However, Mr. Harman was unable to participate in the Conference because of illness and the session heard instead from Y. Lavi, Scientific Counsellor to the Embassy of Israel, who is a graduate of the Technion.

The closing afternoon session, chaired by Dr. William Fondiller, voted a series of resolutions designed to implement the decisions of the delegates.

Most delegates attending the Conference remained in Chicago on Sunday evening to attend a dinner in honor of Mr. and Mrs. Jacob R. Sensibar, sponsored jointly by A.T.S. and the Chicago Metropolitan Chapter of the Women's Division.

On the whole, delegates participating in the extraordinary three-day meeting were unanimous in their opinion that the National Planning Conference in Chicago was a milestone in the history of A.T.S. and that it will act, in the years ahead, as a catalytic agent producing new sources of support for Technion.

'THE BEST THAT IS IN US'

David Rose, Chairman of the Board of A.T.S., in opening the Conference said:

"We cannot conceive of a successful Israel without a successful Technion. Apart from everything else Technion is the only institute of technology in Israel and it is impossible to conceive of a twentieth century civilization without technology. For this we have met and to this we will devote our energies for the next three days. We will give our energy, our thoughts, the best that is in us to help make Technion grow in the pattern it has set and we will continue to set new patterns.

"I can say for all of us here and for myself certainly as an individual sharing the feelings of so many, that Israel has given to all of us something that was never anticipated or envisaged. Our individual lives have been enriched by Israel and what we have given to Israel is but a small part of what Technion has given to us."

'Ours Is a Noble Undertaking'

By B. SUMNER GRUZEN

The National Planning Conference of the American Technion Society convenes on the eve of the 15th anniversary of the establishment of the State of Israel.

It is good for us, assembled in this great city of Chicago, to recall to mind the world of fifteen years ago.

The year was 1948 and the world as a whole was still recovering from the shock and the aftermath and the blood of World War II. One could fortell the rising tensions that were beginning to be felt between the East and the West.

In the postwar refugee centers, in the notorious DP camps, scores of thousands of Jewish families who had survived the mass murders refused to return to the scenes of the slaughter. Their bodies weakened by years of oppression, Jewish survivors clamored for a permanent homeland, a safe and secure harbor in which to begin life over again. In 1948, the mandated territory of Palestine was the scene of bloody riots and acts of terror. A staunch, determined Jewish community of 650,000 souls fought with remarkable, indeed, with incredible valor against the reactionary policies of British Colonial power and the terrorism of the Arabs.

We in America, surrounded by comparative wealth and comforts, were nevertheless deeply, profoundly affected by the events that transpired 6,000 miles across the seas in the tiny land area that, as of May 14th, 1948, was proclaimed and was to be known from that day on as the State of Israel.

After the establishment of the Jewish state, after the removal from the DP camps of hundreds of thousands of Jewish refugees to a new life in Israel and after the wholesale transfers of large communities of impoverished Jews from North Africa and from various Asian countries, it became apparent to those who were thoughtful and who took a long-range view, that the enormous problems confronting this old-new homeland were first beginning.

It was during those first moving days that the leaders of an organization in this country joined in a bold and far-reaching decision. The organization was the American Technion Society, that had been set up earlier to furnish support for the Haifa Technical Institute; the decision was to help create upon the nucleus of the Haifa Technical Institute a modern, well-equipped, well-staffed university of science and engineering, that would provide

Israel with the engineers, architects, scientists and technicians she would surely and desperately need for many, many decades to come.

The decision of the Society was looked upon by some with the same doubtful eyes that were cast upon the decision to establish the State of Israel. And, just as the State of Israel was created and was nourished and was helped and guided until today it is a sovereign, proud and self-governing nation in the comity of nations, so the Technion has grown and expanded and blossomed, and is today, we are proud to say, a remarkable, up-to-date, high-level institution of higher learning devoted to the engineering sciences, a showplace of Israel, truly a university of science and technology of the entire Jewish people.

All of us who in these last fifteen years have participated in the realization of the Technion dream have ample reason to be proud. The Technion, with its nearly 5,000 students, with its vast influence in every phase of Israel's life, is a magnificent accomplishment. Some of us have been involved in this glorious work for a long time, and yet the time for us to retire from this cause has not yet arrived. The Technion is like life itself — let it stand still and the result is stagnation. Build and create and improve and change and expect to meet the new needs and the new challenges — this is what Technion requires of us, just as life requires these same virtues.

Today, no one can tell what the next ten years hold in store for us. We must hope and we must believe that this will be an era of construction and of building for all mankind, for Israel, for Technion. Above all, we must chart our future course with a firm conviction that ours is a noble cause deserving the best of our hearts and the strength of our hands.

I believe, and I know that you believe with me, that in the advancement of the Technion, we build better lives for ourselves, for our sons, and for their sons.

The critics call this the Age of Anxiety. Other word connoisseurs have labeled it the Age of Technology. Both descriptions may very well be apt, but I should like to add a third label and say that we live in an Age of Faith, for if you and I and all our friends around the country and indeed throughout the world did not have faith — the creed of the Jew — there would be no Israel and no Technion, and we would not be sitting here in Chicago planning how we could pool our ideas

and join our resources so as to better advance the cause we hold so dear.

We believe that the Technion is the hub and the heart of Israel's heroic efforts to achieve a viable economy through the expansion of science and technology, through the development of its industry, and through the application of the findings of modern technology to every facet of the country's development.

We can take great pride and derive considerable satisfaction from the bare statistics that reflect the historic process of changing 2,000 years of neglect into a dramatic story of quite incredible achievement.

Let me cite a few statistics to indicate that the dreams and the hopes of making Israel a highly industrialized nation are not pipe dreams but sober and serious challenges to us all.

In 1953, the total dollar value of all exports from Israel was \$56,400,000. Of this figure, more than two thirds represented the export of citrus products and processed diamonds. All industrial products combined totalled nearly some \$22,000,000. Last year, the total export of products from Israel reached the formidable sum of \$280,000,000 of which nearly \$124,000,000 represented a wide variety of industrial products and processed minerals. Among these products — just to name a few — were cotton goods, cement, pharmaceuticals, tires, potash, bromide, wood, automotive and chemical products, etc., etc.

Israel today has regular customers in 96 countries in five continents — although more than one-half of its total exports are absorbed by five European countries and the United States.

We must acknowledge that the Israelis have used resourcefulness, know-how, determination and skill to attain this impressive standard — and yet, we must remember the other and still serious side of the coin. Imports from abroad still exceed exports by a substantial

margin. These imports include machinery and raw materials of nearly every conceivable type, as well as railway equipment, boats and planes.

Thus we see that the government and the people of Israel have made substantial progress but because of a continuing and substantial influx of new immigrants — the basic weakness of Israel's economy remains pretty much the same.

Agriculturally, as all of us probably know, Israel has in its first fifteen years of independence practically achieved self-sufficiency, with the exception of grains and beef which must still be imported. Indeed, owing to her climatic advantage, Israel is capable of further developing its growing export of winter fruits and vegetables to nearby European markets. But when we turn it all around, and look at the problems from every possible angle, we return to the same conclusion:

Only a highly industrialized, highly technical economy can sustain Israel as its population continues to increase, year by year. We must take cognizance of the great movements of Jewish communities that have taken place in the last fifteen years (not altogether unforeseen) and that still take place, with Israel as the ultimate destination.

Even the most cursory glance at a map of tiny Israel must compel us to conclude that the limitation on agriculture must come soon. It is only through the expansion of industry that Israel will be able to support a growing population. When I say industry, I mean the kinds of industry that make sense for a country as small as Israel, and for a country that is so ideally — geographically, that is — situated, sitting as she does at the crossroads of three continents. When I think of Israel in these terms, I think of highly industrialized countries like Belgium, Holland and Switzerland who despite their limited physical dimensions, have nevertheless succeeded in providing high

(Please turn to page 12)

AMERICAN TECHNION SOCIETY
NATIONAL PLANNING CONFERENCE
CHICAGO, ILLINOIS

JERUSALEM, ISRAEL

MY CORDIAL GREETINGS TO THE PARTICIPANTS IN THE NATIONAL PLANNING CONFERENCE HELD BY THE AMERICAN TECHNION SOCIETY STOP ISRAEL WHICH IS NOT A RICH COUNTRY MUST EXPLOIT TO THE UTMOST HER NATURAL RESOURCES AND DEVELOP HER ECONOMIC AND INDUSTRIAL POTENTIALITIES STOP THIS AIM CAN BE REALIZED ONLY WITH THE AID OF HIGHLY SKILLED SCIENTIFIC AND TECHNOLOGICAL KNOWHOW AND THE TECHNION WHICH IS THE CENTER OF TECHNOLOGICAL STUDIES IN ISRAEL UNDER THE ENERGETIC GUIDANCE OF MY FRIEND GENERAL YAACOV DORI MAKES A PROFOUND CONTRIBUTION TO ISRAEL'S DEVELOPMENT IN THIS RESPECT STOP ISRAEL THANKS TO THE HIGH STANDARD OF HER INSTITUTIONS OF LEARNING HAS BECOME A SYMBOL OF PROGRESS AND ACHIEVEMENT TO MANY NATIONS ESPECIALLY FROM ASIA AND AFRICA REPRESENTATIVES COME TO ISRAEL IN ORDER TO ACQUIRE AND PASS ON THIS KNOWLEDGE STOP MAY YOUR DELIBERATIONS BE CROWNED WITH SUCCESS.

DAVID BEN GURION



L. to r., Martin Jelin, Alexander Konoff, Lawrence Schacht, J. R. Sensibar, B. Sumner Gruzen, Gen. Yaacov Dori.



Speakers and participants in the Conference included . . . Dr. Joseph W. Wunsch, A.T.S. Honorary President



. . . Mrs. Bess Glasser, Miami Chapter President . . .



Gen. Dori beams as he meets with a number of the Society's younger leaders — l. to r., Arnold Horelick, Pittsburgh; Maurice M. Rosen, Philadelphia; Jack Kay, Washington, D. C.



A.T.S. Executive Director William H. Schwartz greets Gen. Dori at opening session of the Conference.



Abraham Levine, Technion Yearbook Advertising Chairman . . .



Max Seltzer, Boston Chapter President . . .



Harold E. Beckman, A.T.S. Treasurer.

Chicagoans greet Gen. Dori; l. to r., Samuel M. Bernstein, David Riff, J. R. Sensibar, Joseph Wertheimer, Maurice Spertus.



Delegates to the Conference came from every section of the United States, as well as from Canada, to assess the programs and needs of A.T.S. and the Technion. Above, a candid photo taken at one of the sessions. Front row, l. to r., from Detroit — Samuel Grand, Murray Altman, Dr. Joseph Epel, D. Gelfand, Robert Brody.

Pictorial Highlights

The camera has caught some of the high points of the Society's National Planning Conference, on these pages and on the two that follow, which also include a number of photos taken of Gen. Dori during his visits to various communities on the Eastern Seaboard.

Californians at Conference included, l. to r., standing, David Reznick, Joseph Mitchell, Anne Pollock, Oscar Salenger, Harry Bauman, Ruben Finkelstein, Leopold Lerner. Seated, Victor Tabah, Gen. Dori, Mr. Gruzen.



The session devoted to the Technological Department of A.T.S. was chaired by Vice-President Benpamin Cooper, shown below. L. to r., Martin Jelin, who reported on Apprentice Training; Dr. Sebastian Littauer, Research and Development; Dr. William Fondiller, Patents Committee; Gordon B. Sherman, Technological Conferences.





Canadians at the Conference conferred with Gen. Dori. From right, D. Lou Harris, Alfred Miller, Eugene Stearns.



David Rose, Chairman of the Board, chaired the opening session of the Conference and set the tone for the penetrating discussions that ensued. Seated, l. to r., Jacob Barmore, Israel Consul-General for the Midwest, and Gen. Dori.



A.T.S. Honorary President Col. J. R. Elyachar presided at the session devoted to fund-raising, and presented a comprehensive review of campaigns and plans throughout U. S. Seated is Samuel M. Bernstein.

Delegation from Wilkes-Barre, Pa., attended a reception honoring Gen. Dori at home of Lawrence G. Horowitz in Philadelphia.



From Boston, Joseph G. Riesman . . .



Chicago, David Silbert . . .



New York, Murray Rubien



. . . Washington, D. C., Yeshayahu Lavi.

Gen. Dori presents J. R. Sensibar, who served as A.T.S. President for past three years, with commemorative plaque.





Pittsburgh: Dr. John C. Warner, President of Carnegie Institute, Mr. and Mrs. Eugene Cohen, Mrs. Arnold Horelick, Mrs. Warner, Mrs. Samuel Horelick, Gen. Dori, Dr. J. Rosenberg, Arnold Horelick.

U. S. Senator Jacob K. Javits, left, A.T.S. Honorary Chairman, Gen. Dori, Lawrence G. Horowitz, Louis Stein, at Philadelphia reception honoring the Technion President.



Donald Goodkind, of New Jersey, consults with Gen. Dori on Technion's development plans.



At Chicago Dinner honoring Mr. and Mrs. J. R. Sensibar: l. to r., Mrs. Hyman Spector, Mrs. J. R. Sensibar, Mrs. Dori, Gen. Dori, Mrs. Samuel Bernstein, Mrs. Lou Gordon, Mr. Sensibar.



Mrs. Herman J. Leffert shown addressing the Conference on the work of the Women's Division. Seated, l. to r., Dr. Daniel Howard, Chicago, Joseph Mitchell, Los Angeles.



Israel's Ambassador to the United States, Avraham Harman, center shown in Washington with A.T.S. President B. Summer Gruzen and Technion President Gen. Dori.



President's Report

(Continued from page 7)

standards of living for large populations.

And so if we can conclude, as we must, that industrialization is the key to Israel's future, then we must take this one step further and agree that the Technion is the key to industrialization.

There is a law of nature that says that if an organic substance is required but is missing as a component in a given area, then the forces of nature unite, almost mystically, to produce it. So it is with the Technion. Israel today needs the Technion as we in the United States need the M.I.T.'s and the Cal. Tech's. It will need her schooled and qualified engineers and scientists and technicians. Israel will need the academic and scientific influence of the Technion, which must be brought to bear on the future of the country. And as Israel's industry grows and transforms itself and modernizes and meets one challenging situation after another, so the Technion too must adapt and grow and be ever ready to fulfill its function as the major source of trained engineering manpower for Israel and as her principal center for industrial research.

We of the American Technion Society voluntarily, and with multifarious reasons therefore — I have stated mine — have taken upon themselves the historic responsibility of joining the administrators and the teachers and the students of the Technion in the historic work of upbuilding Israel. We have pledged our hearts and our energies and our funds, seeking only in return to know that this great citadel of learning and science will be a true landmark for all that is good and positive. We shall continue, I am sure, to strengthen the hand that guides the Technion. And if in so doing, we help in some way, even in some tiny way, in mankind's eternal quest for truth and knowledge and survival, then we shall be rewarded. And if in our support of the Technion, we help young men and women to learn, and teachers to teach, and know that from the Technion come forth the trained men and women who will guide Israel in the years and decades that lie ahead, then we shall be doubly rewarded.

All of us in this room have been caught in a web of our own making — we have fallen in love with the Technion and the harder we pull, the stronger the bonds become.

If there is one trait that characterizes the engineer and the businessman, and certainly the friends of Technion, it is that of practicality. We share in our hearts a common dream for Israel and Technion, and simultaneously we go about our work with our feet firmly



A new type of mechanical jack for prestressed concrete has been invented by engineers Edwin Bousso (l.) and Dr. Ori Ishai of Technion's Department of Mechanics. The new device is small in size, sharp in precision and inexpensive to produce. The jack has been patented and will soon be manufactured for the Israel and export markets.

planted on solid ground, for we know that to realize a dream, to transform an idea into living reality, requires practical and hard-headed sense. It is against this background that we will continue in our endeavors in behalf of Technion.

Now, before I close, I wish to thank the many fine men who in these first few months of my tenure of office have come forward with ideas and with expressions of support which I find most gratifying and encouraging. It will be a challenging and a difficult job for me to fill the shoes of men like J. R. Sensibar, David Rose, Yechiel Elyachar, Joe Wunsch and Bill Fondiller, but I can assure you that I will do everything possible to fulfill your hopes and expectations.

'Both Ours'

A story circulating in Israel today is that of the Israeli physician who met a Soviet physician at a medical conference in Geneva. The Russian doctor, who was one of the physicians attending the famous Soviet Jewish scientist, Dr. Lev Landau, who had been seriously injured in an automobile accident, said to the Israeli:

"You know, Landau is our Einstein."

"You know," the Israeli replied, "they're both ours."

IF

you would like us to send literature about the Society and Technion to your friends, just drop a line to American Technion Society, 1000 Fifth Avenue, New York 28, N. Y.

Women's Division HIGHLIGHTS

You Can Still Join Women's Division Fourth Annual Tour of Israel and Europe — Group Leaves Sept. 29

It is still not too late for you to join the Women's Division's Fourth Annual Tour of Israel and Europe — featuring Technion, of course — which will leave New York on September 29th and return October 22nd. All you need do is contact the Women's Division of the American Technion Society at 1000 Fifth Avenue, New York 23, N. Y. (TRafalgar 9-3427).

The Technion Women's Division tour group will leave New York via El Al jet on September 29th, arriving in Israel the next morning and transferring immediately to Haifa. Highlights of the tour follow:

October 1 — Visit Technion campus, as well as sites of Haifa; reception for tour members at the new campus.

October 2 — Tour of Galilee and northern Israel, including Tiberias, Nazareth, Arab village, Kibbutz Degania Bet, Sea of Galilee.

October 3 — Haifa, celebration of Sukkot holiday.

October 4 — Galilee tour, including Capernaum, Rosh Pina, Safad, Artists Colony, Acre, Nahariya.

October 5 — Sabbath, at leisure.

October 6 — Tel Aviv.

October 7 — Tour of Negev, Ashkelon, Yad Mordechai, Beersheba, Bedouin encampment.

October 8 — Sightseeing in Tel Aviv, Jaffa, Bat Yam.

October 9 — Rehovot, visit to Weizmann Institute, Rishon leZion, Givat Brenner, WIZO girls farm.

October 10 — Last day of Sukkot. Free.

October 11 — Jerusalem, including walking tour of synagogues, Simchat Torah celebration.

October 12 — Sabbath, at leisure.

October 13 — Jerusalem sightseeing, Hebrew University, Hadassah Hospital, Knesset, Herzl's Tomb.

October 14-21 — Three days in Greece, five days in France, depart for New York on October 22nd. Full tours based from Athens and Paris have been arranged.

The all-inclusive cost is \$995.

Three Regions Formed By Women's Division

The A.T.S. Women's Division has recently established three Regions to keep pace with the continued expansion of its membership, now past the 8,000 mark.

The New York Region will be headed by Mrs. Harold Korzenik and comprises seven chapters in the Greater New York area. Mrs. Lou Gordon will head the Midwest Region, made up of five chapters, of which three are located in Chicago, and one each in Milwaukee and Madison, Wisc. The Southern California Region, composed of seven chapters in the Los Angeles area, was led by Mrs. Milton Heifetz and whose new President is Mrs. Morris Asimow.



Shown above and below are delegates — more than 100 strong — who attended the recently-held first national convention of the Women's Division of the American Technion Society. Representing 31 chapters and a national membership of 8,000, the convention delegates assembled in Philadelphia resolved to expand the Women's Division program of student sponsorship at the Technion.



Research At Technion - New Israeli Inventions - Training For Graduates -

ONE THIRD IN SCHOOL

Almost one third of the population of Israel is studying in school, Israel's Minister of Education Abba Eban said recently. This, he added, is probably the highest proportion of any country in the world.

Total student enrollment in Israel today is 645,000, compared to 130,000 at the time of Israel's founding in 1948.

All Roads Lead To Strengthening Israel and Development of Institute

Members and friends of the American Technion Society are advised by Benjamin Cooper, Chairman of the Technological Department, that there are "three methods through which Americans can provide aid to Israel and Technion, in addition to gifts to the Technion."

Himself an industrial engineer of note who has been actively engaged in advancing the cause of Technion for nearly three decades, Mr. Cooper urged readers of *Technion Review* to bear in mind the continuing availability of Technion in Haifa for research work.

Through the Technion Research and Development Foundation, Mr. Cooper said, a great variety of large and small research projects are under way ranging across the entire spectrum of science and engineering. This research work, he said, is being carried out not only in behalf of Israel institutions and companies, but also in behalf of United States Government agencies and large, world-wide organizations such as the Ford and Rockefeller Foundations.

"If your own company, or a company with which you are associated, is seeking top-level research know-how," Mr. Cooper said, "you would be performing a service for the Technion and yourself by recommending consideration of the facilities of the Technion Research and Development Foundation."

Another source of aid for Technion is the Technological Department's Patents Committee, which seeks to promote Israel inventions for the benefit of the Technion. Among the industries in which new inventions have been developed and which are now being offered to American business men are Chemicals, Electronics, Metals, Building Materials and Mechanical Devices. Further information describing details of these various inventions can be obtained from the Technological Department of the Society, Mr. Cooper said.

Finally, Mr. Cooper said, friends of Technion who are in a position to employ, or to recommend for employment, graduates of the Technion who are seeking "on-the-job-apprentice training," are also asked to contact the Technological Department.

At the present time, nine graduates of the Technion (from classes beginning in 1954 through 1961) are seeking apprentice training in the United States in the following fields:

- Machine and Product Design, Industrial Hydraulics.
- Development and Research, Hydraulic and Pneumatic Servo-mechanisms and Instrumentation.
- Machine Parts Design and Methods, and Equipment for their Production.
- Mechanical Design.
- Nuclear Instrumentation, Low Level Count-

ing, Electronic Instrumentation for Nuclear Works.

Industrial Buildings, Commercial or Office Buildings.

Electronic Computers, Servo-Systems, Pulse Circuits.

Industrial Servo-System, Process Control and Instrumentation Engineering, Air Conditioning.

If you can help place Technion graduates in apprentice training jobs in the above-mentioned fields, please contact the Technological Department of A.T.S.

The flag of Nepal flies proudly over the head of Pabitra Rana, a Nepalese student at Technion who is enrolled in the special agricultural engineering course at the Institute that is offered to Asian and African students under the sponsorship of the Israel Foreign Ministry. The photo was not merely a pose—Pabitra really can read the Tel Aviv Hebrew daily, *Maariv*.



Technion Launches 'Crash' Program For Sephardi Students - - Soldiers Make Up First Group

Col. J. R. Elyachar, Honorary President of the Society, who has for some time spearheaded a campaign to close the cultural gap existing in Israel between the Ashkenazic and Sephardic communities, reported recently that a specially-selected group of 35 Israeli soldiers—all of them of Sephardic origin—are now attending an intensive "crash program" at Technion, intended to prepare them for the regular freshman examinations to be held in August.

An additional group of 35 Israel soldiers is also enrolled in a similar program at the Hebrew University, thanks to the financial support of the Montefiore fund of Britain.

The Technion leader has long advocated the establishment of such special *Ulpan* courses to enable young Israelis of Sephardic origin, who lack intensive educational backgrounds and adequate finances, to obtain a higher education at all of Israel's institutions of higher learning. His contention that the growing gap in educational opportunities for Ashkenazic and Sephardic youths posed a grave threat to Israel's future won the support of numerous Israeli leaders and friends of Israel throughout the world.

The new Technion course was made possible through cooperation of the Israel Defense Forces and a substantial grant from the Mitrani Family Foundation For Studies, an American foundation, which seeks to aid Sephardi youth in Israel. Marco Mitrani, of Bloomsburg, Pa., and Col. Elyachar, have jointly spearheaded a program aimed at accelerating the closing of the cultural gap between the Sephardic and Ashkenazic communities in Israel. Mr. Mitrani also provides substantial scholarship aid to Sephardic youths in Israel who seek a high school education.

When, a year ago, statistics revealed a low percentage of Sephardi students at the Tech-

nion, a committee was set up to probe ways of improving the situation. It was found that because of economic or family difficulties many of the Sephardi youth applying for admission to the Technion were inadequately prepared. After taking the matter up with the authorities of the Hebrew University who were also concerned by the phenomenon, a plan was drawn up proposing that the army enable Sephardi soldiers to attend a special half-year course to prepare them for the entrance examinations. The plan was submitted to Prime Minister Ben-Gurion, who endorsed it enthusiastically.

The Army selected 35 candidates, all high school graduates, and transferred them in a special unit to Haifa. Studies are already under way. The course given at the Technion includes, besides Mathematics and Physics, such general subjects as History, Literature, Geography and English.

Those candidates who successfully pass the entrance examinations of the Technion will be enabled by the Army to begin their formal studies, while those who fail will return to their former units. Most of the applicants come from development areas in the country and from large and needy families.

Col. Elyachar paid tribute to Dr. Hanani, Vice-President for Academic Affairs at Technion, for his efforts in behalf of this urgent program. Col. Elyachar at the present time sponsors 25 scholarships at the Technion and 20 at the Hebrew University, and has also instructed the Technion authorities not to reject any student applicant from the Sephardic community who may be short in funds, but to grant him a scholarship for which he has made himself responsible.

French Engineer Donates Acoustics Laboratory



I. E. Katel, one of the pioneers in the science of acoustics, and a member of the Executive Board of the recently-reorganized French Technion Society, has made a generous gift to the Technion for the construction of a new laboratory to be devoted to study and research

in the acoustical sciences. The new laboratory will bear M. Katel's name.

NEW PHILADELPHIA PRESIDENT



Dr. I. M. Levitt, Director of the Fels Planetarium, right, has been elected President of the Philadelphia Chapter, and is congratulated by Lawrence G. Horowitz, left, named Chairman of the Board, and Ruben P. Rosen, named Chairman of Foundation and Endowment Program.

Safeguarding Israel's Food Industry

Every fifth person in the world suffers from hunger. If the malnourished were also to be reckoned, nearly half the population of the world may be said to live below the optimum level required to keep body and soul adequately together. What is the answer to this stag-

gering food problem? Many would maintain that the solution lies in increased agricultural production.



G. Zimmerman

But in the opinion of Assoc. Prof. Gideon Zimmerman, head of the Department of Food and Biotechnology at Technion, a great deal can be done to minimize the overall world deficit by better care

and more scientific utilization of the available food resources.

To translate this general, world-applicable belief into specific, Israeli action was the prime consideration in establishing the Department of Food Technology at Technion. This consideration motivated the first head of the Department, the late Professor Braverman, and continues to inspire his collaborator and successor, Prof. Zimmerman, today.

With such a high-priority, practical purpose in view, it is only natural that the Department of Food Technology should have been planned so as to provide for a broad-based and well-balanced curriculum. Practical training is given by the Department in the processes of food dehydration, concentration, preservation, fermentation and distillation.

Emphasis is laid on the fundamental principles and methods by which any food can be evaluated, analyzed, modified, combined with other foods, processed and controlled. In addition, the students are taught the chemistry and biochemistry of food, as well as nutrition, microbiology and sanitation. In short, the Department aims to prepare its students—who join it after two years of chemical engineering—to enter any food industry and to be able to make use of the multifarious techniques and equipments of the chemist, physicist, biologist and engineer.

The Department has developed six laboratories in which the students conduct regular experiments: Food Chemistry and Biochemistry; Bacteriology and Microbiology; a Pilot Plant replica of full-scale factory where every kind of food may be processed; a Laboratory for Food Quality Control; a Biotechnology Laboratory; and a Laboratory for Nutrition Research.

Both undergraduates and graduate students studying for higher degrees are enrolled in the Department. One third of the students' time is devoted to lectures and seminars, and two-thirds is spent in laboratories, the Pilot Plant seminars and visits to food processing plants.

During the relatively short period of its existence, the Department has succeeded in building up a high reputation for research, both at home and abroad. Research projects are sponsored by progressive Israel food industries as well as by such internationally-known institutions as the Ford Foundation. Even the U. S. Department of Agriculture has entrusted it with research on problems of specific interest to American food scientists.

Examples of research and development projects undertaken by the Department include investigations into the processing of dates, canning of whole tomatoes, new methods of concentrating tomato juice and the packaging of heat processed foods.

What gives a reddish tint to leeks and onions? How to keep black olives black and green olives green? What makes egg yolks yellower? Can mashed bananas be canned? These are a few of the food puzzles which the researchers at the Department are trying to solve.

No less important is the Departmental section which provides advice on development problems, which is headed by Dr. Chaim Mannheim. This section acts as trouble-shooter for the local food industry. It advises the Israeli food manufacturer on such ticklish food problems as off-color, bad smell and off-taste. In fact, the ingenuity and know-how of all the staff members are pooled together in finding solutions to such undesirable side-effects in the industrial production of foods.

Israel, perhaps more than any other developing country, was quick to take full advantage of the technical help offered by such international agencies as UNICEF, which contributed greatly to improving the distribution methods of the local dairy industry.

Every Department in a scientific institute bears the impress of its chief. What kind of person is Prof. Zimmerman? Born in Vienna in 1917, received his higher education in Switzerland. Because of his Zionist background, he studied dairy sciences and nutrition, believing that these would be of practical value for his future career in Israel. He graduated from the Swiss Institute of Technology, Zurich, and took a Doctorate in Nutrition.

Israel is one of the few countries of the world that offers a broad-based and well-balanced curriculum in Food Technology.

Thirtieth Anniversary of Technical High School Celebrated - - Past Achievements Win Praise

The thirtieth anniversary of the establishment of the Technical High School affiliated with Technion was celebrated in June amid festive ceremonies. Alexander Konoff, Vice-President of the Society and benefactor of the Technical High School, who was unable to attend the ceremonies, sent a message extolling the institution's progress to date and expressing confidence that the "accomplishments of the first thirty years will seem comparatively little when viewed alongside the accomplishments of the next three decades."

In his message, which was read to the students and guests at the celebration by Dr. G. Ahroni, Principal of the Technical High School, Mr. Konoff added:

"The Technical High School must and will grow . . . in size, in scope, in higher standards, in study and research, in new methods and in new concepts of service to the State and industry. All of us who are truly interested in the Technical High School rely on it to provide Israel with an ever-growing number of well-trained graduates.

"We know, too, that among each year's graduating class will be men and women who will return to the classrooms and workshops to join and expand the High School faculty. We hope, too, that more and more of your

TOO FEW TECHNICIANS

The function of science in Israel is to contribute to the development of the State's security and economy and to aid in the development of agriculture and industry in a country which has few natural resources, Dr. Ernst D. Bergmann, Chairman of the Israel Atomic Energy Commission, declared recently in a talk in Tel Aviv.

Dr. Bergmann said that Israel today has too many scientists and too few technicians and called for an end to "intellectual snobbism" which he held responsible for this situation. He emphasized that the lack of skilled technicians hampers Israel's development in a way that no increase in scientists could remedy.

faculty will visit the United States and other countries advanced in technology, and return to Israel with new ideas and new understanding to assist in the School's growth and usefulness.

"I am very happy to inform you that in honor of the High School's Thirtieth Anniversary, I am contributing the sum of 30,000 Israel Pounds to the Scholarship Fund, to be used for deserving young men and women whose families cannot afford to pay tuition fees.

"From the depths of my heart, I bid you all Shalom."

Aid to Students IL 500,000

Aid to students at Technion during the year 1962/63 was close to IL.500,000, according to the annual report of President Yaakov Dori.

The aid is given in three forms: a) Scholarships, b) Loans on easy terms, and c) Reductions in fees.

Scholarships accounted for IL.167,000, loans for IL.200,000 while over IL.90,000 were made available in the form of special reductions in fees. The largest single scholarship amounted to IL.1,300 — and over 100 of the 340 students who qualified for scholarships received awards ranging between IL.600 and IL.900. The number of students aided represents a sizable proportion of the student body.

Electronic Computer At Technion

A new Elliott 803 electronic computer has recently been installed at the Technion, and will be used for teaching purposes.

The computer will serve to teach all Technion students how to use electronic computers for solving problems in research and production. Each of the Technion's undergraduate students will be given an opportunity to prepare a problem and utilize the computer for its solution. The electronic computer will also be used by the Institute's scientists for research work.

The Elliott 803 is capable of performing 2000 operations per second and over 4000 items can be stored in its "memory".



PLAN NEW JERSEY DRIVE

Basil Herman, Administrator of the Technion who recently visited the United States, is shown with Samuel Klein, right, of New Jersey, who is spearheading the New Jersey State Chapter's Fall campaign, which will feature a testimonial dinner honoring A.T.S. President B. Sumner Gruzen.

What's New... ON THE CAMPUS

Nearly 200 engineers and scientists from all parts of Israel met at Technion City recently at the Fifth Israel Annual Conference on Aviation and Astronautics and considered a total of 34 lectures presented by their own members and by six scientists from abroad. Participants included Dr. A. E. Russel, technical director of Bristol Aircraft, Dr. T. F. Heinsheimer, of M.I.T., and the Israeli Minister of Transport, Y. Bar Yehuda.

* * *

A new graduate course in Environmental Studies has been launched by Technion and is designed to aid physicians, economists, geographers, architects, civil engineers and others working and planning living places for men and women. The course is being given under the aegis of the Faculty of Architecture and Town Planning and graduates will earn a Masters Degree. Acting Dean of the Faculty, Assoc. Prof. Aviah Hashimshoni, said that planning and building today require "a knowledgeable cooperation of many disciplines."

* * *

Recent appointments: Prof. Nathan Rosen has been named Dean of the Graduate School; Assoc. Prof. Rudolf Landsberg will be Acting Dean of Mechanical Engineering; Assoc. Prof. Stefan Stricker will be acting Dean of Electrical Engineering; Assoc. Prof. David Abir has been named head of Aeronautical Engineering.

* * *

Prof. A. De Leeuw, head of the Hydraulics Laboratory, has been appointed to the David T. Siegel Chair in Hydraulics, established by the Siegel Foundation of Chicago in memory of the long-time benefactor and supporter of the Institute. Prof. De Leeuw, who settled in Palestine in 1924, was in charge of design of Israel's National Irrigation and Power Plan. He has carried out a number of engineering assignments in Asia and Africa in behalf of the United Nations.

* * *

The Arnan Prize was awarded to Assoc. Prof. Ariel Taub, of the Faculty of Mechanical Engineering, and to Dr. A. Rosen, a Technion graduate, for their research work on graphitization in steels. The prize was presented by the Israel Association of Engineers and Architects.

* * *

At the recently concluded conference of the Mediterranean Corporation for Solar Energy held in Madrid, Assoc. Prof. Nathan Robinson, who heads the Technion's Solar Radiation Laboratory, was elected Chairman of the Committee for Solar Water Heating. The United States is understood to be considering the

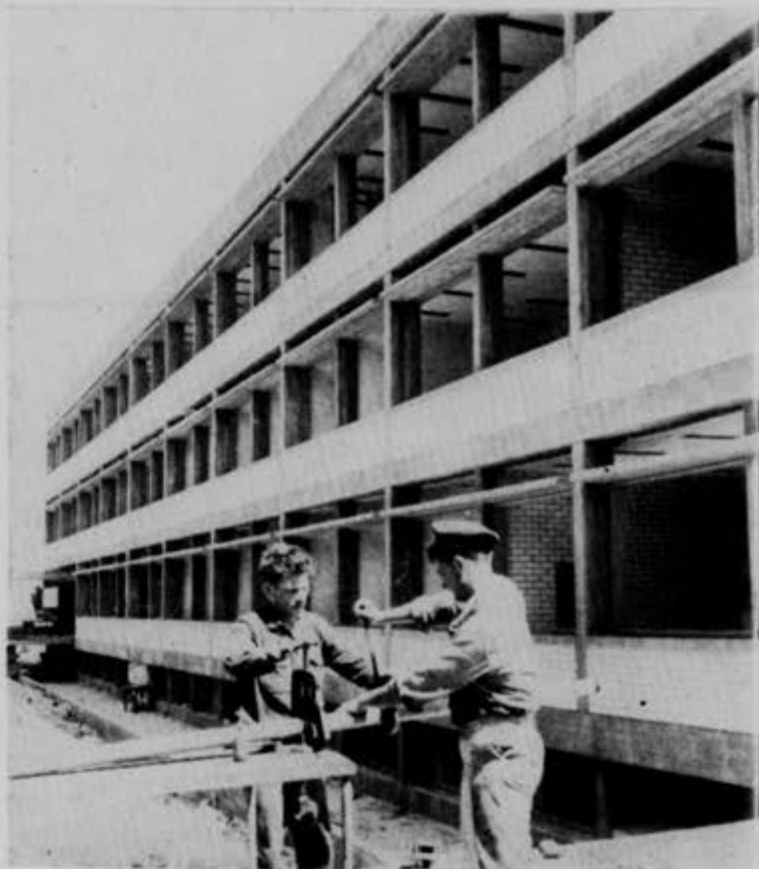
adoption of a new standard for solar water heaters, which was submitted to the Israel Government by Prof. Robinson and Dr. A. Stotter, a Technion faculty member.

* * *

An annual award for outstanding creative achievement by a student of architecture at the Institute has been established in memory of Sigmund Braverman, a distinguished Cleveland architect and lifetime supporter of Israel. The fund for the award was established by Mrs. Braverman. The primary goal of the Sigmund Braverman Award is to encourage original and creative thinking in building design. The late Mr. Braverman designed a number of major buildings in Cleveland and created the architectural designs of more than two score houses of worship in the United States and Canada.

* * *

The continually expanding need for mining engineers in Israel has led to the establishment by Technion of a new, four-year mineral engineering undergraduate program, it was announced by Assoc. Prof. A. Slatkin, head of the Mineral Engineering Department. The new course will begin in October, 1963, and will emphasize mining, ore dressing, and extractive metallurgy.



Finishing touches are now being put to Anne Borowitz Building, part of the Hydraulic Engineering center at Technion City.

Dr. Joseph W. Wunsch, A.T.S. Honorary President, first published the poem below in Technion Yearbook, a number of years ago. It is reprinted here at the suggestion of many delegates to the National Planning Conference, where Dr. Wunsch read excerpts from his poem in the course of his moving talk on the history of the Society.

TECHNION

By

J. W. WUNSCH

Hail, Alma Mater on Mount Carmel,
Foster mother to the children of many lands
Grateful for your smile
Of welcome and understanding.
Eager to learn thy words and ways,
To a new life.

Teach them in the reborn tongue of the Prophets
The mysteries of the Earth and the Sea
And God's wondrous ways,
That they may serve their People
And lighten the burdens of all men,
And bring honor to you, Alma Mater.

As you have shown the way, Alma Mater
To harness the timeless, tireless Jordan
To flood the land with light
And ease the load of the pioneer,
Teach them to make their homes
And build great cities;
Good and safe heavens for body and spirit,
Prolific workshops for willing hands.
Teach them to make the desert bloom in great
fertility,
For the People are returning to their Land
And they are homeless and hungry and thirsty.

They have come to witness the Resurrection,
To redeem their birthright! Eretz Yisrael.
In freedom to destiny, through freedom to labor
With brain and brawn,
With skilled hands, not cunning,

With devotion and warm hearts
And high hopes.
The Sons of the People have come home,
Alma Mater,
Teach them to lead their own
Even as their fathers
Through bloody clouded centuries,
Unwelcome and unwanted,
Lighted the way
For ungracious hosts in many Lands.
The sons have returned to Zion
To the cradle of their fathers
To build the Land anew,
To increase a thousandfold the ancient fruits
of the Valley,
To drain the swamp,
To bridge the chasm and swift river!
Through power to Power,
Breathe life to the loom,
The boom and the wheel!
Through industry to provide
Abundance of comforts to all mankind!
To build a beacon of civilization for all the world.
Welcome too, and sustain, Alma Mater
The sages and teachers of our People
Who found refuge within your gates.
Wise and learned men they are,
Old and young, with scared hearts
And tired bodies.
Make them at home!
Give leave to nourishment
In the soil of this new Old-Land,
For the bruised tendrils of their uprooted lives,
Their heads though bloody held high
Their hearts full of hope,
They have far more to give than their needs.
Gracious Alma Mater:
These men and boys need refuge.
Feed them and give them drink
Even as you hold aloft the Light.
Teach them that what is not yet
May yet be wrought by them.
They will bring to you and to our People
A new glory,
Alma Mater on Mount Carmel.

A LINK WITH ISRAEL'S FUTURE

You can establish an eternal bond with Israel, through a bequest in your will that can assure the continued growth and development of Technion.

The progress of Israel is inexorably linked to the unhampered development of the Technion. The graduates of Technion are the builders of Israel, today and tomorrow.

The Bequest Committee of the American Technion Society is available at all times to help you include a bequest for Technion in your Will.

May we hear from you?

Sixth Annual Technological Conference



Benjamin Cooper, left, Chairman of the Technological Department, confers on plans for the forthcoming sixth annual Technological Conference, to be held under A.T.S. auspices on October 26th and 27th, 1963, at the Statler-Hilton Hotel in New York. Shown with Mr. Cooper, l. to r., are Gordon Sherman of Chicago, who will serve as Chairman of the Conference, and Drs. Bern Dibner and Joseph Wunsch, Co-Chairmen.

American Technion Society, 1000 Fifth Avenue, New York 28, N. Y.

☐ I am interested in contributing toward the capital funds campaign of A.T.S., for the advancement of Technion— Israel Institute of Technology, and hereby pledge the sum of \$ _____ payable herewith \$ _____ balance follows: 1963 \$ _____ 1964 \$ _____ 1965 \$ _____

☐ I would like to become a member of the Society, and would appreciate receiving an application form.

☐ I would like to receive literature about the Technion and the Society.

Name _____ Address _____

In Memoriam

DAVID ROSENSTEIN, of New York, for many years deeply interested in the advancement of Technion and in the work of the Society. He also was an active supporter of ORT programs, as well as of other noteworthy institutions. He is survived by his widow, Mrs. Frances Rosenstein, who is National Treasurer of the Women's Division and a Past President of the Manhattan Chapter of the Women's Division.

The American Technion Society extends its heartfelt condolences to Mrs. Rosenstein and to her family.

SHLOMO ETTINGEN, Professor of Highway and Railway Engineering at Technion, and a member of the faculty since the Institute opened in 1924. He published a technical dictionary in French and German.

The American Technion Society joins with mourners throughout the world in expressing its deepest sorrow at the passing of Israel's beloved President, Itzhak Ben Zvi.

The second President of Israel was a man of great vision, who never forsook his scholarly interests. Probably his most memorable trait — which was recognized by all who came into contact with him was his abiding love for the house of Israel and his supreme faith in the future of all mankind.

May his memory never be obliterated.

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MIDWEST REGION: 59 EAST VAN BUREN ST.

CHICAGO 5, ILLINOIS

Telephone: WEBster 9-0911

August 30, 1963

Dr. Abba Hillel Silver
East 105th Street & Silver Park
Cleveland 6, Ohio

Dear Doctor Silver:

I read the proceedings of the Zionist's Conference in Israel and was very much impressed by your statements which were reported in the Anglo-Jewish newspapers.

I did visit Cleveland on behalf of Technion when you were in Israel and plan to visit again in the near future.

I know that you will be extremely busy and involved until the end of the high holidays and I would appreciate learning from you when you will have time to meet with me so that we may discuss the future of the American Technion Society in your community, Cleveland.

Best wishes for a pleasant and healthful New Year.

Sincerely yours,

David Erenberg
Midwest Regional Director

DE/bp

American Society for



TECHNION-

ISRAEL INSTITUTE OF TECHNOLOGY, Inc.

NATIONAL OFFICE: 1000 FIFTH AVENUE

NEW YORK 28, NEW YORK

Telephone: TRafalgar 9-8400

October 1, 1963

Dr. Abba Hillel Silver
The Temple
East 105th Street & Ansel Road
Cleveland, Ohio

Dear Dr. Silver:

Permit me, firstly, to convey to you sincerest good wishes for the New Year. May it indeed be a year filled with light and hope for all men.

I write you at this instance, in behalf of the Board of Directors of the American Technion Society, to invite you to deliver the principal address at our Testimonial Dinner that will be tendered on the evening of December 11, 1963, in honor of our mutual friend, Abraham Tulin. This is the traditional Annual Dinner arranged by the Society in the New York area, and we are really delighted to be able to dedicate this year's dinner to Abe Tulin, and to pay tribute to a man who has earned and won the respect and admiration and love of so many people.

I know that it is unnecessary for me to tell you with what rare fervor and profound talent Abe Tulin has labored these many, many years to bring succor to Jewry and strength to Israel. A Testimonial Dinner, I am sure you will agree, can only represent a token of the esteem in which he is held. Because of your long association with him, your address at our Dinner would be received with tremendous enthusiasm. Many of our Technion friends in the New York area would, I am certain, go away from the Dinner filled with renewed understanding of Israel and appreciation of the Technion's role in Israel's development.

The Dinner will be held at the new Conrad Hilton Hotel in New York, and I do hope we can receive a speedy and affirmative reply from you.

With every good wish.

Sincerely yours,

B. Sumner Gruzen
President

bsg:lb

October 7, 1963

My dear Mr. Gruzen:

Let me thank you for your letter of October first and for your gracious invitation to address the Testimonial Dinner in honor of Abraham Tulin on December 11, 1963. It would be my great pleasure, indeed, if I were free to come. I have ~~known~~ Mr. Tulin for many years. We worked together for our common cause and I should have liked very much to attend the dinner and to join his host of friends in paying tribute to him.

My present plans call for my being out of the country at that time. I do not wish to accept an invitation which I will have to cancel at the last moment. Please convey my best wishes to Mr. Tulin and my highest esteem.

With warmest regards and all good wishes for the New Year, I remain

Very cordially yours,

ABBA HILLEL SILVER

AHS:bfm

Mr. B. Sumner Gruzen
President
American Society for Technion
1000 Fifth Avenue
New York 28, New York

Invitee List: Technion Luncheon- 9/11/58- Hotel Statler, Cleveland.

Names with * attended luncheon

1958 Pledge

Previous Contribution.

Leonard Abrams
Atlas Steel & Supply Co.
4401 Trumbell
DI 1-1570

* Morris Abrams
Curtis Industries
1130 E. 222nd St.
IV 1-7400

\$3,000,

Harry F. Affelder
Wolf Env. Co.
1749 E 22nd St
PR 1-8470

\$ 300.

Max Apple
3717 Washington Blvd (18)
YE 2-1635

Elmer Babin
1220 Huron
PR 1-5400

300.

William M. Bassichis
2666 W. Park Blvd
YE 2-2610
(b) 2323 W 3rd St.
MA 1-4181

att.

Milton L. Benjamin
Erickson Tool
34350 Solon
CH 8-6543

Stanley S. Benjamin
Erickson Tool
34350 Solon
CH 8-6543

Jack J. Bloch
Kurtz Furniture Co.
320 Prospect Ave.,
TO 1- 5500

George J. Chertoff
Synthetic Products Co.,
1636 Wayside Rr. 12
KE 1-6010.

Joseph E. Cole
National Key
4515 Superior
EX 1-0220

Sylvester W. Flesheim
19015 Van Aken Blvd(22)
LO 1-5903

all

1958 Pledge

Previous Contribution

David Frankel
1425 Rockwell (19)
TO 1-4040

300.

Max Freedman
Cook Coffee
3615 Chester Ave.
EX 1-4200

Arthur Friedman
The Chemical Rubber Co.
2310 Superior Ave.
CH 1-4040

* Jacob Friedman
Builders Structural Steel Co.
Jacob & Herm Friedman
2912 E. 34 St (15)
VU 3-8300

\$5,000.

* Martin Friedman
Momart Steel Corp.,
235 E. 131 St.
GL 1-2600

Sam M. Friedman
Escar Corp.
1207 N.B.C. Bldg
PR 1-8255

1,200.

* Harry Gellin
Gellin Co.
1111 Carnegie Ave.,
TO 1-8185

500.

Edward Ginsberg
Hipp Bldg
SO 1-8550

* Samuel Givelber
1741 E. 25th St
TO 1-1863

5,000.

5,000.

M. E. Glass
N.B.C. Bldg
SI 1-7500

600.

* Joseph Glazer
Dealers Dairy Products
1200 W 9th St
MA 1-2945

* Albert Goodman
Goodman Mattress Co.
275 E 131
GL 1-5000

1,000.

	1958 Pledge	Previous Contribution
Eugene H. Goodman 275 E 131 CL 1-5000		3. \$300 \$300.
A. P. Goulder Doan Electric 725 Hamilton MA 1-1467		500.
George V. Goulder International Molded Plastics Inc 4387 W 35th St FL 1-8010		
Shelden Guren Hipp Bldg SU 1-8550		
Irving Hexter 812 Huron SU 1-9622	\$2,500.	250.
* Milo Holdstein 1030 Euclid MA 1-2383		275.
Samuel S. Kaufman Campus Sweater 3951 Euclid UT 1-2800		100.
* Hayden B. Kline Union Commerce Bldg CH 1-4700		
Ben and Oscar Kravitz Anchor Rubber 1725 London IV 1-5900		1,000.
Julie Kravitz 2560 Traymore ER 1-2075		
Jack Carl S. Lampl Sun Finance & Loan 747 Euclid CH 1-0660		250. 250. (500.)
Carl S. Lampl 2576 Superior Ave. CH 1-1864		250.
* Albert A. Levin Marshall Bldg SU 1-5230		500.
Marion I. Levy Viking Air Prod. U S Radiator 5601 Walworth ME 1-7500.		

William Loveman
Burdette Oxygen Co.
33 Lakeside
TO 1-5320

* Abe Luntz
1372 Hanna Bldg
SU 1-9330

\$200.

all

* Jack Mandel
4415 Premium Autoware
4415 Euclide
EX 1-8300.

\$3,000.

Morton Mandel
4415 Euclide
EX 1-8300

200.

Emanuel Margulis
Reliable Steel Plate
2330 E. 79th St
UT 1-8100

* Maurice Maschke, Jr.
Pioneer Linen Supply
3611 Payne Ave
HE 1-0035

Howard M. Metzenbaum
Union Commerce Bldg
CH 1-6400

Alex Miller
6600 Grant Ave
VU 3-4972

Louis Miller
6600 Grant Ave
VU 3-4972

Samuel Miller
Independent Towel Supply
1802 Central Ave
MA 1-9260

all.

D.N. Myers
Byerlyte Corp.,
2300 W. 3rd St
PR 1-0345

500.

all.

George Nachman
Spohn Heat. & Vent Co.
1775 E 45 St
HE 1-8070

Bailey Ozer
Viking Cooper Tube
16700 St Clair
IV 1-1180

250.

* Julius Price
Marshall Bldg
Su- 1-5230

Price

*	Albert Ratner 17903 St. Clair KE 1-6600		
	Harry Ratner		
*	Leonard Ratner	\$5000.	\$1790.
	Max Ratner		
*	Leighton Rosenthal 1768 E. 25 St PR 1-4040	5000.	
*	Maurice Saltzman 3830 Kelly EN 1-6400	5000.	500.
	Louis S. Sanders Craftint ,fg Co 1615 Collamer GL 1-1225		
	Jacob Sapirstein Amer. Greeting Pub. Inc 1328 W 78 St OL 1-5000		1000.
	Samuel E. Schuman 4391 Bradley Rd (19) SH 1-7800		
	Ezra Shapiro Natl City Bank Bldg CH 1-3737		100.
	William Shipley Mainline Cleveland, Inc. 1260 E. 38 EE EX 1-1800		
	Albert E Siegler Albert Siegler & Sons 5117 Lee Rd MO-2-7300		
	Ernest Siegler 4190 Silsby EV 1-9261		
	David M. Siff 1030 Euclid CH 1-1630		
*	Rabbi Abba Hillel Silver	5000.	
*	Rabbi Daniel Jeremy Silver		
	Arthur R. Simon The Vokes Ohio Co 2188 Scranton Rd KE 1-2345		

	<u>1958 Pledge</u>	<u>Previous Contribution</u>
* Max Simon 700 W. St Clair Ave. MA 1-0668	\$1000.	
Albert Singer Singer Steel 2100 Random CE 1-8380		
Alfred I. Soltz Leader Bldg CH 1-1450		
William C. Treuhaft. Tremco Co 8701 Kinsman Rd SW 1-1900		\$100.
Loren B. Weber Campus Sweater 3941 Euclid UT 1-2800		
Morris M. Weiner Momart Steel 235 E 131 St GL 1-2600		
Adrian E. Weiss Superior Die Casting Co 1001 London IV 1-3050		
Dr. David White Lester Engineering 2711 Church MA 1-8814		
Hy D. Wilkoff 2700 E. 4th EX 1-6600.		
R. W. Wilkoff William J. Wilkoff		
S. Zehman Zehman Wolf Const Co 13484 Cedar Rd FA 1-5163		
Ben D. Zevin World Pub Co 2231 W. 110 WI 1-6930		
* Henry Zucker 1001 Huron		