סימפוסיון בין לאומי לכימיה מאקרומולקולרית. 3-9 אפריל. 1956 INTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, APRIL 3-9, 1956

THE WEIZMANN INSTITUTE OF SCIENCE REHOVOT. ISRAEL

מכון ויצמן למרק רחובות. ישראל

Cable Address: WEIZINSYMP REHOVOT, ISRAEL Telephones: Tel Aviv: 66255
Rehovot: 301, 259.

January 26, 1956

Varie Trav

Prof. W. Natta Istituto di Chimica Industriale del Politecnico Piazza meonardo de Vinci 32 Milano, Italy

Lear Professor Natta:

I deeply regret your inability to come to the International Symposium on Macromolecular Chemistry to be held in Israel. All of us were looking forward eagerly to the pleasure of having you here. And we hope that you will not let us wait too long for another visit.

Your work on the new polythene and polypropylene excited profound interest in Israel, as elsewhere. I imagine that, in the not too distant future, you will be approached by our plastics industry for your help and advice.

Looking forward to meeting you on another occasion, I am

. Very sincerely yours,

Frof. A. Katchalsky Head, Dept. of Polymer Research

March 2, 1956

Professor A. Katchalsky, Head Department of Polymer Research The Weizmann Institute of Science R E H O V C T & Israel

Dear Professor Katchalsky,

Many thanks for your kind letter of January 26. I am very sorry not to be able to attend to the International Symposium on Macromolecular Chemistry to be held in Rehovot. I have been informed that also Prof. Nasini, of the University of Turin, will not be able to come to Israel.

who holds the course of the macromolecules chemistry at the Folytechnic of Milan, may attend to this Symposium on behalf of our Institute. Professor Danusso might present a paper about the works, carried out in this Institute, on the behaviour of isotactical polystyrene in solution. If this paper may be accepted in spite of its delay, I should be very grateful if you let me know as soon as passible.

Hoping to have soon another opportunity to meet you, I send you my best personal regards.

Very sincerely yours,

Giulio Natta

סימפוסיון בין לאומי לכימיה מאקרומולקולרית. 9-3 אפריל. 1956 וNTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, APRIL 3-9, 1956

THE WEIZMANN INSTITUTE OF SCIENCE REHOVOT, ISRAEL

Cable Address: : weizinsymp Rehovot, ISRAEL
Telephones: Tel Aviv: 66255
Rehovot: 301, 259.

December 23, 1955

Prof. G. Natta Istituto di Chimica Industriale Piazza Leonardo da Vinci 32 Milano Italy

Dear Professor Natta:

I have the pleasure to invite you to act as the chairman during the presentation of papers and discussion in Session VII of the International Symposium on Macromolecular Chemistry. This session is part of Section 2, devoted to the General Behaviour of Biocolloids and Polyelectrolytes in Aqueous Solution. The presentation of papers will follow a lecture on Interactions of Biological Macromolecules, which begins at 2:30 p.m. on Friday, April 6, 1956 in the Wix Auditorium of Yad Weizmann. For your convenience I am enclosing a copy of the tentative programme of lectures.

I would deeply appreciate your early approval of this proposal so that we can put the programme into final form and send it to the members of the Symposium. Please let me know if there is any way in which we can be of assistance.

Sincerely yours,

Prof. A. Katchalsky
Head, Dept. of Polymer Research

AK:erg

Marchalle Maria

January 10, 1956

Prof. A. Katchalsky, Head
Department of Polymer Research
The Weizmann Institute of Scie
R E H O V O T - Israel

Dear Professor Katchalsky,

Coming back to Milan after a period of holidays, I found your very kind letter of December 23.

I thank you very deeply for your kind invitation to act as the Chairman during the presentation of papers and discussions in Session VII of the International Symposium on Macromolecular Chemistry.

Till now, I hoped to be able to come to Rehovot, as I am very interested in the Sympesium, and to meet, during thos days, you and other chemists with whom to have useful and interesting discussions.

Unfortunately, I cannot leave Milan next April becaus of some very important and unforeseen engagements, and so I am very sorry but I am obliged to renounce to participate to the Symposium.

Thanking you very much for your kindness, I send you my best personal regards,

Very sincerely yours,

G. Natta

Chairmen

INTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, ISRAEL, APRIL 3-9
1956

OPENING CEREMONY

H. Mark (Polytechnic Institute of Brooklyn, New York): Trends in Modern Polymer Research

OPENING OF SCIENTIFIC SESSIONS
Introductory Remarks: A. Tiselius (Uppsala University, Uppsala)
Chairman: H. Staudinger (Research Institute for Macromolecular
Chemistry, Freiburg)

Section 1. General Behaviour of Polymers in Solution

Statistics and Thermodynamics of Polymer Solutions:
Solubility, Phase Separation and Gel Formation;
Solvation and Association; Molecular Weight and
Molecular Shape: Osmometry and Light Scattering;
Excluded Volume Effect; Hydrodynamic Properties:
Viscometry and Double Refraction of Flow; Sedimentation and Diffusion Studies.

Session I

I. Prigogine (University Libre de Bruxelles, Brussels):
Statistical Thermodynamics of Long Chain Molecules in
Solution.

Chairman: H. Mark

Proceedings Chairman: A. Peterlin (J. Stefan Institute, Ljubljana) Acting Chairman: H. Pekeris (Weizmann Institute of Science)

Session II

C. Sadron (Research Center for Macromolecular Chemistry,
Strasbourg): The Shape of Macromolecules in Solution
from Optical and Electro-optical Data.

Chairman: A. Nasini (The University, Torino)

Proceedings Chairman: P. Urbansky (Institute of Technology, Warsaw) Acting Chairman: M. Frankel (Hebrew University of Jerusalem)

Session III

J.J. Hermans (Der Rijks Universiteit, Leiden):
Hydrodynamic Properties of Polymer Solutions.

Chairman: H.W. Melville (University of Birmingham, Birmingham)

Proceedings
Chairman: S.R. Palit (Calcutta)
Acting Chairman: M. Reiner (Technion-Israel Institute
of Technology)

Session IV
S. de Groot (Lorentz Institute, Leiden): Thermodynamic Study of Sedimentation and Diffusion.

Chairman: A. Muenster (Frankfurt a. Main)

Proceedings
Chairman: A. Staverman (Central Laboratory T.N.O. Delft)
Acting Chairman: I. Dostrovsky (Weizmann Institute of Science)

Section 2. General Behaviour of Biocolloids and Polyelectrolytes in Aqueous Solution

Colligative and Flow Properties; Electrochemistry of Polyelectrolytes: Potentiometry, Conductivity, Transport Numbers and Electrophoresis, Dielectric Properties; Colloidal and Surface Phenomena in Biocolloids and Polyelectrolytes; Interaction of Charged Macromolecules.

Session V
R. Fuoss (Yale University, New Haven): Electrochemistry of Polyelectrolyte Solutions.

Chairman: Y. Go (Shinshu University, Ueda-City, Naganoken)

Proceedings Chairman: S. Claesson (University of Uppsala, Uppsala) Acting Chairman: S. Lifson (Weizmann Institute of Science)

Session VI

E. Rideal (University of London, London): Surface
Phenomena of Polymers and Biocolloids.

Chairman: M. Letort (Nancy)

Proceedings Chairman: G. Gee (University of Manchester, Manchester) Acting Chairman: S. Hestrin (Hebrew University of Jerusalem)

Session VII

K. Linderstrom-Lang (Carlsberg Laboratory, Copenhagen):
Interactions of Biological Macromolecules.

Chairman: V. Desreux (Liege)

Prodeedings
Chairman: G. Natta (Istituto di Chimica Industriale, Milano)
Acting Chairman: E. Katchalsky (Weizmann Institute of
Science)

Section 3. Special Polymeric Systems in Solution

Organic Polymers (vinylics, rubbers, polyesters, polyethers, etc.); Inorganic Polymers (silicones, silicates, polyphosphates, etc.); Biological Polymers (proteins, nucleic acids, cellulose, etc.); Synthetic Polyelectrolytes.

Session VIII
J.D. Watson (Harvard University, Cambridge, Massachusetts):
Structure of Nucleic Acids.

Chairman: K. Vesely (Institute for Macromolecular Chemistry, Brmo)

Proceedings Chairman:

Acting Chairman: I. Berenblum (Weizmann Institute of Science)

Session IX

C. Meyer (Columbia University Medical Center, New York):

Structure of Connective Tissue.

Chairman: H.S. Owens (U.S. Dept. of Agriculture, Albany, California)

Proceedings Chairman: H. Siht ola (Pulp and Paper Research Institute, Helsinki)

Acting Chairman: B. Shapiro (Hebrew University of Jerusalem)

GUEST LECTURES

Introductory Remarks: G. Champetier (Faculté des Sciences, Paris)
H.W. Melville (University of Birmingham, Birmingham):
Recent Advances in the Kinetics of Polymerization.
Chairman: G. Champetier
Acting Chairman: E.D. Bergmann (Scientific Department, Israel
Ministry of Defense)

G. Smets (University of Louvain, Louvain): Organic Reactions of Macromolecules.

Chairman: C.G. Overberger (Polytechnic Institute of Brooklyn, New York)

Acting Chairman: D. Ginsberg (Technion - Israel Institute of Technology)

M. Magat or (Laboratoire de Chimie Physique, Paris):
A. Charlesby (Tube Investments Research Laboratories, Hinxton Hall)
Radiation and Polymers.
Chairman: J.A.V. Butler (Chester Beatty Research Institute,
London)
Acting Chairman: G. Stein (Hebrew University of Jerusalem)

1956 . סימפוסיון בין לאומי לכימיה מאקרומולקולרית. 9-3 אפריל INTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, APRIL 3-9, 1956

THE WEIZMANN INSTITUTE OF SCIENCE REHOVOT, ISRAEL

מכון ויצמן למדע רחובות. ישראל

Cable Address: WRIZINSYMP REHOVOT, ISRAEL
Telephones: Tel Aviv: 66255
Rehovot: 301, 259.

January 2, 1956

Dear Colleague:

Please find enclosed the Second Circular with some additional information about the forthcoming International Symposium on Macromolecular Chemistry. You are kindly requested to fill out the enclosed forms for hotel, tour and plane reservations, and to return them at your earliest convenience.

Sincerely yours,

A. Katchedaky

Prof. A. Katchalsky
Head, Dept. of Polymer Research

P.S. If you plan to attend the meeting and have not yet registered, please send us the Application form (blue) promptly. Additional copies of this form may be obtained from the Central Office of the Symposium.

סימפוסיון בין לאומי לכימיה מאקרומולקולרית. 3-9 אפריל. 1956 INTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, APRIL 3-9, 1956 THE WEIZMANN INSTITUTE OF SCIENCE מכון ויצמן למדע REHOVOT, ISRAEL רחובות, ישראל Cable Address: WEIZINSYMP REHOVOT, ISRAEL

Telephones: Tel Aviv: 66255 Rehovot: 301, 259.

September 22, 1955

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Prof. Giulio Natta Istituto de Chimica Industriale del Politecnico Piazza Leonardo da Vinci 32

Milano

ITALY

Dear Prof. Natta,

Thank you for your kind letter of September 7. I am happy to know that you are planning to attend the Symposium next april. I find your subject most suitable and of great interest and shall be happy indeed to have you present a paper at one of the sessions. In the near future we shall have more information about travel and housing accommodations and shall be in touch with you. With warm personal regards,

Sincerely yours,

N. Katchalmy Prof. A. Katchalsky

Head, Department of Polymer Research Weizmann Institute of Science

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סיממוסיון בין לאומי לבימיה מאקרומולקולרית, פ-9 אמריל, 1956 INTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, APRIL 3-9, 1956

THE WEIZMANN INSTITUTE OF SCIENCE REHOVOT, ISRAEL

מכון ויצמן למדע רחובות, ישראל

Cable Address: WEIZINSYMP REHOVOT, ISRAEL Telephones: Tel Aviv: 66255 Rehovot: 301, 259.

ADDENDUM TO FIRST CIRCULAR

IMPORTANT NOTICE

ON

PAPERS PRESENTATION OF

At its meeting in Zurich on July 23rd, the Commission on Maeromolecules of the IUPAC adopted the following revision of procedure regarding the presentation of papers at the International Symposium on Macromolecular Chemistry, to be held in Israel, April 3 - 9, 1956:

> Before December 1, 1955, a full abstract (up to 1,000 words) should be sent to the Central Office of the Symposium. (The enclosed form in duplicate provides space for this.)

> Full abstracts of the papers to be presented will be printed by the Weizmann Scientific Press in book form and provided, free of charge, at the beginning of the Symposium.

Before February 1, 1956, two copies of the manuscript should be sent to the Central Office of the Symposium.

Papers and discussions will be published in a special issue of the Journal of Polymer Science before the end of 1956.

Preprints of the manuscripts will not be available at the Symposium but galley proofs will be sent to authors by the Journal of Polymer Science.

From ten to twenty minutes will be allowed for each paper.

The official languages of the Symposium will be French and English.

E. WEXLER

B.P. 12 H a i f a Israel.

Varie

Haifa le 11 Janvier 1956.

Monsieur Nata, Instituto de Chemica Industri**a**l del Polytechnico de Milano.

Monsieur,

Monsieur Katchalsky du Weizman Institute m'a donné votre adresse.

Je m'interesse avec un groupe local a la fabrication du polyethylene sous basse pression en Israel.

Je puis etre a Milano le 3 Fevreier et vous serai très reconnaissant de bien vouloir me donner rendez-vous ce jour le matin de préference.

Priere me repondre par avion, veuillez agréer Monsieur mes salutations les plus distingué es.

E. Oxh

Vous Touvez repondre en Anglais on Italien.

In Centrale Mayer Corp. Ltd Geneve 21 Knut Base

Jar.

Egr. Dr. E. WEXLER

B.P.12

HAIFA = Israel

Egregio Dottore,

Ho ricevuto la Sua gentile lettera dell'11 Gennative La informo che sarò lieto di rifeverLa venerdì 3
Febbraio qui al mio Istituto. Siccome ho delle lezioni nelle prime ore della mattina, potrò vederLa o dopo le ore
11.30 oppure nel pomeriggio dopo le ore tre.

La prego di gradire i mei migliori saluti.

Giulio Natta

Moure

Dr.David Ginsburg, Chairman Dept. of Chemistry, Technion, Israel Institute of Technology, P.O.Box 4910 Haifa (Israele)

Dear Doctor Ginsburg,

Professor Natta, presently abroad, charged me to send you his signature, as required in your letter of May 6, 1964, for the wall of your main lecture hall.

We hope that at least one of the three signatures we send you will be suitable for your purpose.

With kind regards,

the secretary to Prof.Natta

TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY



6 May, 1964

Prof. Giulio Natta Istituto di Chimica Industriale del Politecnico Milano, ITALY



Dear Professor Natta:

It may interest you to learn that in the main lecture hall of our new Chemistry Building we are planning to cover the wall behind the lecturer with facsimile signatures of great chemists who have made important contributions to various fields of chemistry. I am sending out this letter to about one hundred chemists the world over asking for a facsimile signature. We then intend to add about 2-3 additional names annually to this chemical hall of fame.

We should be honored if you would be kind enough to send us a facsimile signature, written on ordinary paper with a thick pen and about twice the size of your usual signature. Our students will then be in the fortunate position of learning, also by this means, the names of the leaders of chemistry in the world today.

With kind regards,

Sincerely yours,

David Ginsburg

Chairman

DG:pd

TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY



24 June, 1964

Prof. Giulio Natta
Istituto di Chimica Industriale
del Politecnico
Milano,
ITALY

Dear Professor Natta:

On May 6, 1964, Professor Ginsburg wrote you the enclosed letter but we fear that it, or your reply, may have been lost in the mail.

I am sorry to trouble you again with this matter. Since we have already received nearly ninety per cent of the signatures for our "Wall of Fame" and since it would be unthinkable to have your signature missing from it, may I trouble you again for your signature, or if the matter has not yet received your attention let this letter serve as a humble reminder.

Thanking you for your cooperation at your very earliest convenience.

Sincerely yours,

Kehava Rezni

Secretary

Department of Chemistry

KR:pd Encl. Monde

NATIONAL COUNCIL FOR RESEARCH and DEVELOPMENT CENTER OF SCIENTIFIC and TECHNOLOGICAL INFORMATION

המועצה הלאומית למחקר ולפיתוח המרכז לאינפורמציה מרעית וטכנולונית

"Maariv House", 2 Rarlebach st. Tel-Aviv.

-בית מעריב", רח' קרליבך 2, תל־אביב.

P.O.B. 20125 אד.ה Tel. 33727 אל.

M-45/59/ // 1/87

3rd September 1961.

Prof. Giulio Natta
Instituto di Chimica
Industriale del Politecnico di Milano
Piazza Leonardo da Vinci 32,
Milan,
Italy.

Dear Prof. Natta,

This is to acknowledge with thanks the receipt of the List of Papers in the Field of Stero-ordered Polymers, 1955 - 1959, 1960, 1961, which you have been good enough to send us.

Yours faithfully,

Elitur Orial Director.

CG/DA.



NATIONAL COUNCIL FOR RESEARCH and DEVELOPMENT CENTER OF SCIENTIFIC and TECHNOLOGICAL INFORMATION

המועצה הלאומית למחקר ולפיתוח חמרכז לאינסורמציה מדקית וטכנולוגית

"Maariv House", 2 Karlebach st. Tel-Aviv.

של. 33727 dd.

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M-45/59/ \$75 29th June. 1961

Prof. Giulio Natta Industrial Chemistry Faculty of Engineering Politecnico di Milano Piazza Leonardo da Vinci Milan Italy

Dear Prof. Natta.

We would be grateful to receive from you a list of Research Projects carried out by your Institute, as well as those which are now in progress.

With thanks.

Director of Documentation

LV/EG



פכון ושבן לפוע

THE WEIZMANN INSTITUTE OF SCIENCE

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ж 3 1 077 1957

Le 28 Octobre 1957.

Frof. G. Natta, Istituto Chimica Industriale del Politecnico, Piazza Leonardo da Vinci 32, Milano.

Cher Professeur Natta,

Veuillez accepter mes sinceres remerciements pour l'interessante discussion que j'ai eue chez vous lors de mon sejeur a Milan, au sujet des reactions de transformation sur les polymeres isotactiques et syndiotactiques.

Veuillez, cher Professeur, agreer l'expression de mes sentiments les plus sinceres.

H. Eisenberg

W

רחובות, ישראל

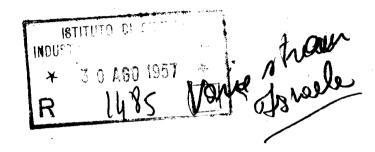


Domine)

REHOVOTH • ISRAEL P.O.B. 26 • 'PHONE 259, 301 דהובותישראל מון.259 טלפון: 26.7.7

August 25, 1957.

Prof. G. Natta, Istituto di Chimica Industriale del Politecnico, Piazza Leonardo da Vinci 32, Milano.



Dear Prof. Natta,

I will be coming to the International Symposium on Macromolecules in Prague and will then stay on for a few weeks in Europe. May I ask your permission to visit you in your laboratory in Milano on my way back to Israel, on Monday morning, October 7th, in order to discuss a few problems related to stereospecific polymerization of vinyl monomers.

We are also interested, for research purposes, in a few samples of isotactic and syndyotactic polystyrenes and would appreciate your help in obtaining such samples. Should such samples not be available it might, maybe, be possible to obtain a sample from which the isotactic parts could then be separated by us. Maybe I could discuss this matter with you or with Dr. Danusso during my visit in Milano.

With very best regards.

Very sincerely yours,

H. Eisenberg.



entan taltraria POLYMER DEPARTMENT

REHOVOT, ISRAEL

רחובות ישראל

June 30, 1958.

Prof. G. Natta,
Istituto Chimica
Industriale del
Politecnico,
Piassa Leonardo
da Vinci 32,
Milano.

ISTITUTO DI CHIMICA
INDUSTI SI SEL POLITECNICO

* 1 5 LUG 1958 *

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Anno 100

Dear Prof. Matta,

I shall appreciate very much receiving all available reprints of publications of yourself and your coworkers, and if possible, also a list of those which are not available.

I am enclosing a note and two preprints which are concerned with a theoretical study of the configuration of stereospecific polymers and may be therefore of interest to you or some chyour colleagues. The papers are scheduled for the July issue of the Journal of Chemical Physics.

Tours sincerely,

Like Line
Shooler Milesa,

africa chia

198-8

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מכון ויצבן לפדע THE WEIZMANN INSTITUTE OF SCIENCE

REHOVOTH • ISRAEL P.O.B. 26 • PHONE 951721-7

CABLE ADDRESS: WEIZINST - REHOVOTH

IN REPLY PLEASE QUOTE

POLYMER DEPARTMENT
PLASTICS RESEARCH LABORATORY

Prof. Fr. g. hatta Intituto di Chimica Inchistrale

Polytecnico di Milano.

Dear Professor Matta,

I should like to express my thanks and appreciation at the way. I was received by your department during my stay in milano.

from Holy of that time and on a consequence of this some of my plans had to remain unfulfilled. However I greatly benefited from my visit to the department itself which I benefited inspiring and hetjoful in our own plans to further found both inspiring and hetjoful in our own plans to further research and development in plastics in our country.

In general J con say that I was once more imporessed by the friendliness I en countred every where in this eventry and I should welcome any forture apportunity to return to suilons out a time when you will be there.

meanwhile I can only hope for the occasion to wrise when we might welcome you and members of your shoff at our institute in plehout.

Nerg sincerely yours

THE WEIZMANN INSTITUTE OF SCIENCE

REHOVOTH • 15 RAE L P.O.B. 26 • 'PHONE • 951721-7

CABLE ADDRESS: WEIZINST . REHOVOTH

IN REPLY PLEASE QUOTE

POLYMER DEPARTMENT
PLASTICS RESEARCH LABORATORY

Prof. Dr. G. Natta l'Istituto di Chimica Industriale Politecnico di Milano

<u>Milano</u>

Dear Professor Natta,

I am a member of the polymer group of this institute which is headed by Prof. A. Katchalsky. Prof. Katchalsky himself, who I know is a personal aquaintant of yours, has been away from this country for more than a month now and has since been undergoing medical treatment in Switzerland. That is why I am writing to you without a letter of introduction from him.

1 3 MAR 1958

7.3.58.

בתשובה נא להזכיר מחלקה לפולימרים

מעברה למחקר חמר

As you might know, our department has, during the past few years, been mainly engaged in pure research in the field of polyelectrolytes. For some time it had been felt that our group should also try to make a contribution towards the development of the plastics industry in this country by directing part of its effort towards applied research. It is with this in mind that a plastics research laboratory had been set up almost two years ago. Since then we have succeeded in establishing cooperation with the local industry which welcomes any guidance we can give them. To be sure, these are at present still rather small enterprises mainly concerned with compounding and transforming of plastic materials.

Though we welcome this close contact with industry we are faced, sometimes, with questions that seem somewhat remote from our pure science background. The problems brought to us often concern manufacturing methods and machinery, the evaluation of raw materials and ready made goods, improvement of quality, introduction of new techniques etc.

That is why we very much feel the need to learn from and follow the example of other laboratories senior and more experienced in the field of plastics.

It is with this in mind that I am about to embark shortly on a trip to Europe in order to visit institutions and companies which engage in research and development work in plastics. It was the suggestion of Prof. Katchalsky that I make your laboratory my first station in Europe. I should, therefore, be most obliged to you if I could spend a number of days with your laboratory, and gather as much as I can about equipment and methods in plastics research. At the same time I should like to visit a number of industrial enterprises engaged in one way or other in the field of plastics. I realize that the latter request may touch on a delecate subject, in view of the secrecy practiced by some companies. However, my interest here is not directed at basic processes for the production of polymers, but rather to manufacturing processes and machinery for finished and semifinished goods, and there the situation might be somewhat easier. There exists in this country the increased desire to introduce into this country methods and techniques for the production of glassfiber reinforced plastics. and I should like to pay special attention to this field.

Would you be able to recommend to me certain companies worth visiting and give me an introduction to them? I should like to spend in Milan 5 to 7 days altogether, starting some time at the beginning of April.

I should be very much obliged to you if I could have your opinion on the matter before my leaving this country.

Yours very truely,

M. Zwick