



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

August 8, 1956

1275A

Am

Prof. G. Natta
Istituto di Chimica Industriale
del Politecnico
Piazza Leonardo da Vinci 32
Milan
Italy

Dear Prof. Natta:

Thank you for your kind letter of July 27. It was a great pleasure for me to hear your talk at the Gordon Polymer Conference and to realize better than ever before the broad scope of your contributions to polymer science.

It was a pleasure to see both you and Mrs. Natta. I have some very excellent movies of both of you.

Sincerely yours,

Ray Boyer

R. F. Boyer
Director of Plastics Research

/d

*from above
signature
Ad.*

854H

July 27, 1956

Dr. R. F. Boyer
Director Plastics Research
The Dow Chemical Company
MIDLAND = MICHIGAN = U. S. A.

Dear Mr. Boyer,

I was very sorry not to be able to come to Midland, and to accept the kind invitation to visit your Laboratories, but, as you know, I have been obliged to shorten my stay in the States because of unforeseen developments.

Both Mrs. Natta and myself will miss with regret this opportunity to meet you and Dr. Hirschkind in the States. We hope that Mrs. Hirschkind is now completely recovered; please convey our best wishes to her.

I hope to have soon another opportunity to meet you in Italy. In the meantime, I send you my best wishes and regards.

Very sincerely Yours,

Giulio Natta

255/A

July 27, 1956

Mr. W. Hirschkind
The Dow Chemical Company
350 Sansome Street
San Francisco 4, California.

Dear Mr. Hirschkind,

Rosita and myself are very sorry not to be able to see Mrs. Hirschkind and you during our stay in the States, but I ~~was~~ have been obliged to come back to Italy before the planned date, because of unforeseen developments.

We do hope that Mrs. Hirschkind is now completely recovered; please convey our best wishes to her.

Hoping to have soon the pleasure to meet you both in Italy ~~of~~ in the States, I send you my best wishes.

Very sincerely yours,

Giulio Natta



THE DOW CHEMICAL COMPANY

350 SANSOME STREET
SAN FRANCISCO 4 CALIFORNIA

March 30, 1956

Professor Giulio Natta
Via Mario Pagano 54
Milan, Italy

Dear Professor Natta:

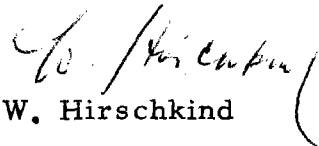
Thank you very much for your letter, as well as for the two enclosed samples of polypropylene, which look extremely interesting.

I note that you expect to travel on April 13, which was about the time we expected to reach Milan. I would be interested to know how long you would be absent from Milan because we might arrange to arrive there earlier.

I will phone you from Frankfurt, Germany, probably on Friday, April 6, or Saturday, April 7. If you care to drop me a line C/O Hotel Frankfurter Hof, Frankfurt, giving me your plans, I would appreciate it.

Looking forward to seeing you in the near future, I am, with personal regards,

Sincerely yours,


W. Hirschkind

ah

ESPRESSO

491 A
April 5, 1956
1966

Mr. W. Hirschkind
c/o Hotel Frankfurter Hof
FRANKFURT (Germany)

Dear Mr. Hirschkind,

Referring to your kind letter of March 30, I inform you that I will stay in Milan till Thursday 12nd April, and after I will come back and remain in Milan from April 15 to 22.

Looking forward to seeing you in Milan, I send you my best personal regards.

Very sincerely yours,

Giulio Natta

MONTECATINI

Società Generale per l'Industria Mineraria e Chimica

Brevetti e Documentazione Tecnica

67/50

PROMEMORIA

28 Maggio, 1976

Data,

987A

W. De Doni
The Dow

Ing. Piero GIUSTINIANI

per il Signor

~~PIRELLA G. P. O. ING. GIUSTINIANI~~
~~PIRELLA~~

Opportunita' trattativa Dow licenza polimerizzazione

Ho ripassato l'incerto Dow e non ho purtroppo trovato una comunicazione scritta in cui ci si riferisce alla Dow il termine della nostra offerta.

L'inconveniente è dovuto al modo frenetico in cui ci sono andate, specialmente in questi ultimi mesi, tutte le pratiche inerenti agli accordi, ed in modo particolare le numerose trattative e le ripetute rielaborazioni di quasi tutti gli articoli nelle nostre bozze di contratto.

Comunque sono quasi sicuro di ricordare che la nostra offerta era valida solo fino alla fine di maggio. Comunque quindi far avvicinare la Dow per conoscere la sua reazione.

Con ossequio,

W. De Doni

545A



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

March 21, 1956

Professor Giulio Natta
Via Mario Pagano 54
Milan, Italy

Dear Professor Natta:

Dr. Giustiniani has replied to Dr. Doan's letter stating that the projected visit by our team during the early part of April would be quite satisfactory to him since his own trip to the United States has now been postponed to the middle of May.

According to our present plans our team, which consists of four people including myself, will arrive in Frankfurt on April 6. Inasmuch as we have some assignments at and near Frankfurt, it may be several days before we can reach Milan but in any event we will phone both you and Montecatini about suitable dates for our visit.

Until then, I remain, with personal regards,

Sincerely yours,

W. Hirschenkind

WH:jd

426A



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

March 7, 1956

Professor Giulio Natta
Via Mario Pagano 54
Milan, Italy

Dear Professor Natta:

Thank you very much for your recent letter informing me of the latest developments on isotactic polymers and at Montecatini. In the meantime our President, Dr. Doan, received a letter from Dr. Giustiniani in which he informed him that Montecatini is ready to begin discussions on the production of isotactic polymers. For your own and confidential use I enclose a copy of Dr. Doan's letter from which you will note that a few of our people, including myself, expect to be in Milan during the early part of April.

Dr. Boyer raised the question whether it would be possible to have a few small samples of isotactic polypropylene and perhaps polystyrene sent by airmail to him for checking. A few physical data might be helpful during our discussions. I do not know whether this is at all possible, but it might be helpful to have such information before our meeting in Milan.

I shall keep you posted as soon as our travel plans are more definite.

Looking forward to seeing you during April, I remain, with personal regards,

Sincerely yours,

W. Hirschkind



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

March 7, 1956

Dr. Piero Giustiniani
Montecatini
Milan, Italy

Dear Dr. Giustiniani:

It is with great pleasure that I acknowledge your letter of February 27 which reached me on return from my Hawaiian holiday. The news that you are prepared to discuss with us the production of isotactic polymers now is particularly interesting and timely since we are in the process of organizing a team to go to Europe during the early part of April for investigations and negotiations of a number of matters. Dr. Boundy, Vice President and Director of Research of our company, and Dr. Hirschkind, whom you know, will both be members of this team.

Dr. Hirschkind has only recently conferred in New York with your Dr. Orsoni on the possibility of Dow's acquiring Montecatini's process for direct oxidation of ethylene to ethylene oxide and our plastics group has expressed an interest in Montecatini's polyvinyl chloride paste resins. The team we are sending is prepared not only to discuss the isotactic polymers but also the two last mentioned items.

I hope that the time we set for the visit of our team will not conflict with your proposed trip to the United States. In particular, we would very much welcome your visit after our team can lay before us the results and conditions arrived at in their preliminary negotiations.

I hasten to inform you about these plans of ours and I shall greatly appreciate having your reply at your early convenience.

With most cordial regards -

Sincerely

Leland I. Doan
President

Piero Giustiniani

Milan, March 12, 1956

Dr. Leland I. Doan
President
The Dow Chemical Company
Midland, Michigan.

Dear Dr. Doan,

I received your letter of March 7th, of which I thank you.

I am awaiting with great pleasure the visit of both Dr. Boundy and Dr. Hirschkind on the first days of April next.

I have already informed my collaborators in order that the exchange of views may usefully take place for all the various items mentioned in your letter.

I deem to be now in a position to finally fix the date of my visit to the States. Except for unforeseeable events, I expect to be in the United States within the first fortnight of May. As you see, the date of my trip does not conflict at all with that set for the visit to Italy of your collaborators.

Hoping to have the pleasure to see you soon, I beg you to accept my most cordial regards.

Yours sincerely,

(Ing. Piero Giustiniani)

March 21, 1956

Dr. W. Hirschkind
The Dow Chemical Company
MIDLAND - Michigan

Dear Doctor Hirschkind,

Many thanks for your very kind letter of March 7. I am very glad to be informed that you and Dr. Boundy will come to Milan during the early part of April. I shall be very pleased to meet you. I wish to inform you, however, that I shall be traveling after April 13

I am sending you, enclosed herewith, two little samples of polypropylene, chosen among those with lower molecular weight, that are more suitable to be worked. When you are in Milan, it will be possible for you to have other more interesting samples from Montecatini.

In regard to the physical data you required, we will speak about it in Milan. We obtained very different kind of products, according to the molecular weight, the crystallinity, etc. I can inform you that we obtained some products having the same or higher tensile strength than nylon, higher elasticity and abrasion resistance.

Looking forward to seeing you soon in Milan, I send you my best personal regards.

Very sincerely yours,

Giulio Natta

Encl. (samples)



THE DOW CHEMICAL COMPANY

243 A

Am

WESTERN DIVISION

POST OFFICE BOX 351

PITTSBURG CALIFORNIA

February 10, 1956

Professor Giulio Natta
Via Mario Pagano 54
Milan, Italy

Dear Professor Natta:

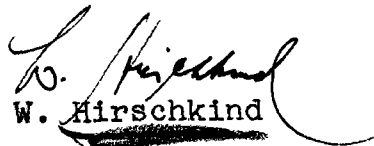
Professor Calvin has returned from his European trip and he speaks of his visit with you and your associates at the Milan Polytechnic Institute as one of the highlights of his journey. From him I learned that your assistant, Dr. Pino, will accompany you on your trip to the U. S. and, needless to say, a cordial invitation is extended to him to accompany you on your visit to our laboratories and plants.


Our president, Dr. Doan, has extended a cordial invitation to Drs. Giustiniani and Orsoni to visit our plants during their forthcoming trip to the U.S., and Dr. Giustiniani, in his reply, mentioned the middle or end of this February as a probable date. Dr. Orsoni was already in New York for one day, but left for Central America, returning in time to meet Dr. Giustiniani. We will certainly discuss Natta polymers with them and, if at all possible, come to an understanding.

We are looking forward to your and Dr. Pino's visit next June and we will be very happy to arrange your visiting us either before or after the Gordon Conference.

With kindest personal regards, I remain,

Sincerely yours,


W. Hirschkind

P.S. My wife and I expect you and Mr. Natta to visit us in California.


February 17, 1956

Jan.

Mr. W. Hirschkind
The Dow Chemical Company
Western Division
Post Office Box 351
Pittsburg, California

Dear Mr. Hirschkind,

Many thanks for your very kind letter of February 10.

I was very glad to have made Prof. Calvin's acquaintance and I hope to see him during my travel to the U.S.A., as I have been invited from the University of Berkeley. My wife will come with me and will be very pleased to meet Mrs. Hirschkind. Many thanks also for your kind invitation for Prof. Pino. I hope he will be able to come to the U.S.A. in June 1956.

Dr. Giustiniani had to delay his trip to the U.S.A. and I believe he will not be able to come till the end of March of in April.

I wish to inform you that the Montecatini has been able to clarify several problems concerning the patents and I think that at the present, they can begin to give licensees in the U.S.A. Therefore, if you are interested in this matter, I think it would be convenient for you not to wait the Dr. Giustiniani coming to the U.S.A. for treating of this argument.

The isotactical polymers ~~field~~ seems to be more and more interesting, for the remarkable progresses we obtained in the simplifying the synthesis processes and in the improving the products properties.

My wife joins to me in sending to Mrs. Hirschkind and you the best regards and wishes.

Very sincerely yours,

Giulio Natta

The Dow

Via Brera 16
Milano, Italia
31 Gennaio 1956

||

Am

Prof. Giulio Natta
Istituto di Chimica Industriale
del Politecnico
P. Leonardo da Vinci 32
Milano

Egreg. Prof. Natta:

Con riferimento alla nostra conversazione telefonica di ieri, Le confermo che mi troverò a Milano per un certo periodo di tempo per l'incarico della Dow. Se posso esser' utile in qualsiasi maniera per il suo prossimo viaggio o per qualsiasi informazione, Le confermo che sono a sua disposizione e posso essere trovato all'indirizzo emarginato.

Con tanti distinti saluti,

Paul F. Greffice
Mediterranean Sales Manager
DOW CHEMICAL INTERNATIONAL LTD.

The Dow

(327)

September 27, 1955

Mr. G. A. Griess, Assistant
Director of Plastics Research
The Dow Chemical Company
M I D L A N D, Michigan

Dear Mr. Griess,

Yesterday I received the samples of Marlex 50,
8 disks compression molded from Marlex, you very kindly
sent to me.

Thanking you very much, I send you the best re-
gards.

Very sincerely yours,

Giulio Natta



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

June 8, 1955

41

America

Professor G. Natta
Industrial Polytechnic Institute of Chemistry
Piazza Leonardo Da Vinci, 32
Milan, Italy

Dear Professor Natta:

Ray Boyer has asked that we send you a sample of Marlex 50. I have today requested that a disk compression molded from Marlex 50, as supplied by Phillips Petroleum Company, be sent to you.

We hope that this will be suitable for the measurements which you would like to make.

Very truly yours,

G. A. Griess

G. A. Griess, Assistant
Director of Plastics Research

/d

*limited compression
ringed strip*

July 5, 1955

Mr. G. A. Griess, Assistant
Director of Plastics Research
The Dow Chemical Company
Midland Michigan

Dear Mr. Griess,

I received your kind letter of June 8, but till now I do not receive the sample of Marlex you requested for me. In the meantime I have been able to find in Europe some samples of Marlex, and therefore, please do not trouble you furthermore.

With many thanks for your interest, I send you the best regards,

Very truly yours,

(Prof. Giulio Natta)

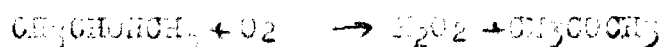
9 Luglio 1954

Prof. L. Hirschkind
Soci. Chimica International Ltd.
Clarkehof, 21 Dreikoenstrasse
Z U R I C H

Dear Professor Hirschkind,

I am very glad to have made your acquaintance in occasion of your trip in Italy. Please excuse me for the delay in replying to your kind letter of 27th June.

As regards to which you asked me for, I can tell you that we made much work on oxidation reactions, but till now we have not published anything. As you visited us some time ago, I don't remember about what reactions we talked, and what I wrote out separately on a piece of paper. Probably, it concerned H_2O_2 production by isopropyl alcohol oxidation with air:



According this reaction, patented by Du Pont, we made some laboratory experiments giving high yields: 92-95% relative to CH_3COOH and 50-70% relative to H_2O_2 . We also studied the hydrogenperoxide production, and, as soon as we publish something about it, I shall send you some reprints.

We studied also the oxidation of methanol to formaldehyde by oxide catalysts at 280-300°C with air excess. This reaction is already applied industrially in Italy at Castellanza (near Milan) and we have yields of 90-95%. We have no steam consumption, but, on the contrary, we have a little steam production by recovering the reaction heat.

My wife join me in sending Mrs. Hirschkind and yourself our personal regards and best wishes.

Very sincerely yours,

(G. Natta)

COPY

THE DOW CHEMICAL COMPANY
Midland, Michigan

December 6, 1955

Dr. Piero Giustiniani
Amministratore Delegato
Montecatini
Via F Turati 18
Milano, Italy

My dear Dr. Giustiniani:

I recall with pleasure your visit with us in 1952, and our conversations with you at that time. I also followed with interest the reports of the periodic visits of our Dr. Hirschkind at your headquarters, particularly those of last summer when he was accompanied by Dr. Boyer and discussed the interesting developments of crystalline polymers with Professor Natta and yourself.

Your courtesies and those of your staff extended to our people are very much appreciated.

We recently learned through your New York representative, Dr. Ottolenghi, of the possibility of your visit next February and that of Dr. Orsoni this coming December or January to the United States.

I take this opportunity of extending to you and to Dr. Orsoni a most cordial invitation to visit us, and by this I do not mean merely our headquarters, but also our different plants and particularly our Texas plant, where petrochemical operations are carried out on a very large scale. I, myself, expect to be in Hawaii with my family during the month of February. I can assure you, however, it will be a pleasure for our people to welcome you at that or any other time.

With kindest personal regards.

Sincerely,

Leland I. Doan
President



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

December 9, 1955

Professor Dr. Giulio Natta
Via Mario Pagano 54
Milan, Italy

Dear Professor Natta:

We received a very interesting report from Dr. Calvin on his visit to your laboratory and I am sure he thoroughly enjoyed and appreciated the discussion with yourself and your staff.

We have been informed by the New York representative of Montecatini, "The Chemore Corporation," of the impending visit of Dr. Orsoni early next year and of Dr. Giustiniani's during next February. Enclosed I am sending you a copy of a letter written by our president, Dr. L. I. Doan, to Dr. Giustiniani extending a cordial invitation to him as well as Dr. Orsoni to visit our different plants.

I will write you again after Dr. Calvin returns. In the meantime, I remain, with personal regards to Mrs. Natta and yourself,

Sincerely,


W. Hirschkind

Enc. (1)

WH:jd

936
Aur

7A

January 9, 1956

Mr. W. Hirschkind
The Dow Chemical Company
Western Division
P. O. Box 351
Pittsburgh, California

Dear Mr. Hirschkind,

Coming back to Milan after a period of holidays, that I spent in Davos, Switzerland, I had the joyous surprise to find the wonderful present you very kindly sent to us. I beg your pardon if I am replying only today.

I was very sorry in hearing about Mrs. Hirschkind illness, but I hope she is already recovered from hers illness. Please, present my sincere good wishes to her also from Rosita.

I was very pleased to made Prof. Calvin's acquaintance and we had together some very interestin discussions.

I know that Dr. Orsoni and Dr. Giustiniani will come to the U.S.A. shortly and I shall be very glad if they come to an agreement with the Dow Chemical Co. for the transfer of some patents of mine.

Rosita and I shall come to the U.S.A. next June and we shall be very glad to meet Mrs. Hirschkind and You.

With my best personal regards, I remain,

Very sincerely yours,

G. Natta

464

October 27, 1955

Dr. W. Hirschkind
The Dow Chemical Company
Midland - Michigan - U.S.A.

Dear Dr. Hirschkind,

I thank you very deeply for your kind interest for my visa, and for all information you send me.

Montecatini Co. is already looking for my application for a visa and I hope not to encounter any difficulty. I shall inform you as soon as my application is on file, so that you can follow up the matter directly with the State Department in Washington, as you very kindly proposed in your letter of October 19.

As to Professor Calvin, we are waiting for him on about November 20, and I am looking forward to seeing him.

Mrs. Matta and myself are sending Mrs. Hirschkind and you our best wishes, awaiting the pleasure of seeing you again in the U.S.A.

Very sincerely yours,

C. NATTA



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

October 21, 1955

Professor Dr. Giulio Natta
Via Mario Pagano 54
Milan, Italy

Dear Professor Natta:

Supplementing my letter of October 19th, our Washington office advises that it would be well for the Montecatini company also to address a letter to the American Consul General in Milan in support of your visa application.

According to your previous letter, Montecatino intended to do this in any event.

With kindest personal regards -

Sincerely yours,

W. Hirschkind

583

America



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

October 19, 1955

Professor Dr. Giulio Natta
Via Mario Pagano 54
Milan, Italy

Dear Professor Natta:

This is to acknowledge your letter of October 10th in reply to mine of September 26th, giving some details about your proposed trip to the United States next year.

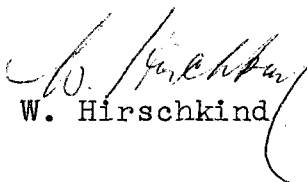
In my recent cable to Dr. Reti I included a note for you stating that I expected to have information regarding your visa shortly. This information has been received, and as a result of it we recommend that you make personal application for a visa with the American Consul General in Milan. Enclosed is a copy of the letter which we sent to him today in support of your application. In addition to this, we are instructing our representative in Milan, Mr. Paul Orifice, care of Hotel Duomo, to personally call on the Consul General. As soon as your application is on file, we will follow up the matter directly with the State Department in Washington. Actually, we believe that you will not encounter the slightest difficulty in your visa application.

This morning I received a cable from Dr. Reti stating that he had to return immediately to Buenos Aires, but he still expects to meet me in New York on or about October 25th. I can certainly rejoice with him in looking forward to a new and promising future in Argentina after his disappointments of last year.

I am very grateful to you for inviting Professor Calvin to a conference in Milan. I am confident that you will have an interesting and stimulating meeting.

My wife joins me in sending Mrs. Natta and yourself our best wishes, and we are looking forward to seeing both of you in the United States next year.

Very sincerely yours,


W. Hirschkind

582

America



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

October 19, 1955

The Honorable William O. Boswell
Consul General of The United States
Milano, Italy

Dear Mr. Boswell:

I am writing you in support of the application of Dr. Giulio Natta of "The Instituto Di Chimica Industriale de Politecnico, Milano", who seeks admission to the United States as a temporary visitor for business purposes.

Dr. Natta is well acquainted with our company and his visit we feel may well contribute to some rather important scientific advances for our company which may inure to the benefit of our country.

We would appreciate the honor of being the host and sponsor of Dr. Natta in America, and will certainly take all steps to be certain that his visit complies fully with your regulations and desires.

We will thank you for any help you can give in expedition of a visa for Dr. Natta.

Very truly yours,

Mark E. Putnam
Executive Vice President

TG

✓cc:
Dr. William Hirschkind, Main Office, Midland (2)
Mr. Paul Orifice, c/o Hotel Duomo, Milano, Italy



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

488
America

September 26, 1955

Professor G. Natta
Via Mario Pagano 54
Milan, Italy

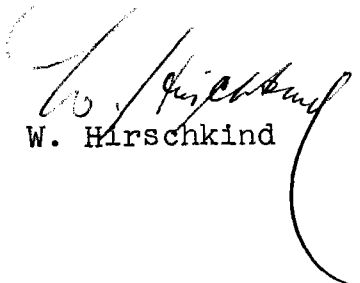
Dear Professor Natta:

Thank you very much for your letter of September 16 with the information that you are considering a visit to the United States and are interested in the best method of procuring a visa. I immediately forwarded your letter to our people in Midland, Michigan, best qualified to handle such matters and I hope I will have something to report to you before very long.

I have received information that Professor Calvin of the University of California, whom you met during the Zurich Conference, expects to visit you in Milan some time in November of this year. I do not need to tell you anything about Dr. Calvin's qualifications and I am sure you will find a meeting with him stimulating.

With kindest personal regards to Mrs. Natta and yourself, I am

Very sincerely yours,


W. Hirschkind

October 10, 1955

(21)
America

Dr. W. Hirschkind
The Dow Chemical Company
Western Division
Post Office Box 351
Pittsburgh, California

Dear Dr. Hirschkind,

Thank you very much for your kind letter of September 26, and for you very appreciated interest for my visa. The American Association for the Advancement of the Science (A.A.A.S.) has invited me to speak at the Gordon Research Conferences next summer, and I have accepted this invitation with pleasure. I received also other invitation to make conferences during my stay in U.S.A.

I hope that there will be no more hesitation on the part of the responsible officials to grant me the necessary visa; on the contrary I am obliged to think that it will be a question of wrong information of of a person mistake. In this case, I should like to know if it is possible that the matter may be reexamined again more carefully. The Montecatini Company intend to forward aerequest for my visa through the American Embassy

As for Prof. Calvin's coming, I have already written to him, inviting him to male a conference in Milan, and I shall be delighted to make his acquaintance.

Mrs. Natta joins me in sending Mrs. Hirshkind and you best wishes.

Sincerely yours,

G. NATTA

(275)

COPIA

THE DOW CHEMICAL COMPANY

Western Division
Post Box Office 351
Pittsburgh California

August 26, 1955

Professor Giulio Natta
Via Mario Pagano 54
Milano - Italy

Dear Professor Natta,

now

Returning to the U.S. on August 1, I only find time to write you and thank you for the hospitality extended to me and for the courtesies extended to Dr. Boyer and myself in visiting your laboratory and the Montecatini Society during our stay in Milan. We have had considerable discussions on your isotactical polymers and only a few days ago I had the opportunity of discussing the matter with ~~the~~ Professor Mark of the Polytechnic Institute of Brooklyn, who agrees with us fully that the development of these products constitutes a major advance in polymer chemistry. Professor Mark mentioned a possible visit by you to the United States on behalf of the Institute. I take this opportunity to extend to you a cordial invitation to visit our different plants at the same time and we would be very happy to collaborate with Professor Mark in overcoming any difficulties you might have in connection with a visa.

I take the liberty of enclosing a letter for Dr. Reti who expects to visit Europe in September and he will undoubtedly spend some time with you in Milan.

With kindest personal regards to Mrs. Natta and yourself, in which my wife joins me, I remain

Sincerely yours,

f. to

W. Hirschkind

DOW CHEMICAL INTERNATIONAL LIMITED

CABLE: DOWINTAL-ZURICH
TELEPHONE: 25-40-17

MIDLAND, MICHIGAN U.S.A.
ZURICH OFFICE:
21 DREIKOENIGSTRASSE
ZURICH 2, SWITZERLAND

July 22, 1954

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

Dear Professor Natta:

Your letter of July 9 reached me on return from an extensive trip to Germany. The information is exactly what I asked for and being the same as on the memorandum which I found again in the meantime.

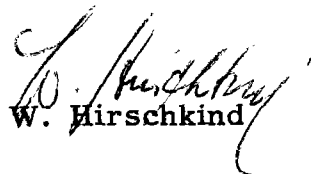
The reactions are very interesting and I shall take the liberty of corresponding with you regarding them on my return to the United States.

A few days ago I received a lengthy letter from Dr. Reti written from Montevideo which was the last stop of his steamer before reaching Buenos Aires. As you probably know, he has serious misgivings regarding certain matters in Atanor and Montevideo was the last place he could write me without facing censorship.

We are leaving Zurich on Saturday, the 24th for London where we will be until July 30th on which day we are sailing on the steamer "United States" for New York.

My wife joins me in sending Mrs. Natta and yourself again our thanks for your hospitality while in Milan and our best wishes.

Very sincerely yours,


W. Hirschkind

WH/gar

*On London Address in
c/o Hotel Savoy*

*Agri-
2137*



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 381
PITTSBURG CALIFORNIA

April 7, 1955

Mr. Piero Giustiniani
Amministratore Delegato
Montecatini Soc. Gen.
Via F. Turati 18
Milano, Italy

Dear Mr. Giustiniani:

In recent correspondence with Professor Natta, he informed me of his latest work on polymers and I will be very much interested in having a discussion with him during my visit to Europe this summer.

According to my latest plans, I expect to be in Milan during the week of May 23 at which time I hope to have the pleasure of visiting you and the Montecatini Company.

I shall take the liberty of communicating with you again about setting a definite date shortly after my arrival in Europe during the early part of May.

With personal regards, I am

Sincerely yours,

W. Hirschkind

WH:JED



ISTITUTO DI CHIMICA INDUSTRIALE
DEL POLITECNICO
VIA LEONARDO DA VINCI, 32 - MILANO

MILANO, July 30, 1954
TELEF. 292-125 - 292-126

Mr. W. Hirschkind
Dow Chemical International Lmt.
MIDLAND (Michigan) U.S.A.

Copie

Dear Mr Hirschkind,

I thank you very much for your kind letter of July 22, with the news you send me.

The latest Dr. Reti's letter I received was from Dakar and I am, therefore, very preoccupied for what you told me ~~about my friend.~~

I shall be very grateful to you if you can tell me further news about our common friend.

With my best personal regards also for Mrs. Hirschkind, I remain,

Very truly yours,

(G. Natta)



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

July 9, 1952

Dr. G. Natta
Istituto Di Chimica
Industrial Politecnico
Milano, Italy

Dear Dr. Natta:

I have read with considerable interest your paper "The Distribution of Products in a Series of Consecutive Competitive Reactions". I have been quite interested in this type of calculation for some time. As your previous publications in Italian journals are fairly difficult to obtain here, I should like to receive any reprints of your previous publications in this field that you have available. I would also like a reprint of the above mentioned paper when one becomes available.

Sincerely yours,

Ascher Opler
Research Department

AO:NJB



THE DOW CHEMICAL COMPANY

273

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

August 26, 1955

America

Professor Guilio Natta
Via Mario Pagano 54
Milano, Italy

Dear Professor Natta:

Returning to the U. S. on August 1, I only now find time to write you and thank you for the hospitality extended to me and for the courtesies extended to Dr. Boyer and myself in visiting your laboratory and the Montecatini Society during our stay in Milan. We have had considerable discussions on your isotactical polymers and only a few days ago I had the opportunity of discussing the matter with Professor Mark of the Polytechnic Institute of Brooklyn, who agrees with us fully that the development of these products constitutes a major advance in polymer chemistry. Professor Mark mentioned a possible visit by you to the United States on behalf of the Institute. I take this opportunity to extend to you a cordial invitation to visit our different plants at the same time and we would be very happy to collaborate with Professor Mark in overcoming any difficulties you might have in connection with a visa.

I take the liberty of enclosing a letter for Dr. Reti who expects to visit Europe in September and he will undoubtedly spend some time with you in Milan.

With kindest personal regards to Mrs. Natta and yourself, in which my wife joins me, I remain

Sincerely yours,

W. Hirschkind
W. Hirschkind

WH:jed

264
September 16, 1955

America

Prof. W. Hirschkind
The Dow Chemical Company
Western Division
Post Office Box 351
PITTSBURGH - California

Dear Professor Hirschkind,

Please excuse me for the delay in answering to your kind letter of August 26. I assure you that I let Dr. Reti have your letter as soon as it was in Milan, at the beginning of September.

I thank you very much for your cordial invitation to the U.S.A. and for your kind proffer of interest for overcoming the difficulties I might have in connection with my visa.

I should be very grateful to you if you may procure information about the best proceedings to follow in order that the arrangements can be re-examined. Please let me know also if I have to do again my demand to the Consulate in Milan, or if it is better to address myself directly to Washington. I don't know if it is convenient that the demand is made by myself or by an Italian Company (for instance, the Montecatini), or better by an American Company or by some people of the scientific field.

Kindly excuse my troubling you. Awaiting you kind reply,
I am,

Very sincerely yours,

Giulio Natta

July 15, 1952

M. Ascher Opler
The Iow Chemical Company
Western Division
Post Office Box 351
Pittsburg - California

I am in receipt of your letter of July 2, by which you are asking me a reprint of my paper: "The distribution of products in a series of consecutive competitive reactions".

I remember the kind welcome that I received from the Iow Chemical Company in 1947, when I visited your factory of Midland, and I am very pleased to have the opportunity of exchanging the kindness received.

Under separate cover, I am sending you a copy of two papers. The other are no more available. A work covering the same subject is being published on the Journal of the American Chemical Soc. and, as soon as possible, I will send you a copy.

Yours sincerely
(Prof. G. Natta)



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

March 18, 1955

Handwritten signature

Professor G. Natta
Istituto di Chimica Industriale
Piazza Leonardo da Vinci
Milano, Italy

Dear Professor Natta:

Many thanks for your most interesting letter of March 8 concerning the preparation of isotactical polymers. I have not yet read your letter to the editor of the Journal of the American Chemical Society since the March 5th issue has not yet reached the Pacific Coast, but I will be watching for it.

Our travel plans have been advanced somewhat. We will leave San Francisco on April 23 and after a stay in Midland and New York expect to fly to Paris on May 4, arriving there on May 5 and continuing to Frankfurt on May 10. I shall communicate with you shortly after my arrival in Europe regarding our trip to Milan to visit you and the Montecatini company.

With kindest regards to Mrs. Natta and yourself, I am

Sincerely yours,

W. Hirschkind
W. Hirschkind

WH:JED

March 29, 1955

Dr. W. Hirschkind
The Dow Chemical Company
Western Division
Post Office Box 351
Pittsburg, California

Dear Doctor Hirschkind,

I received your letter of March 18 and I look forward to seeing you May in Milan.

In regard to my letter to the Editor of the Journal of the American Chemical Society, I think it will be published in the next issue, if it has not been published in the last issue of March that we have not yet received.

With kindest regards, I remain,

Sincerely yours

G.Natta



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

March 4, 1955

Professor G. Natta
Istituto di Chimica Industriale
Piazza Leonardo da Vinci
Milano, Italy

Dear Professor Natta:

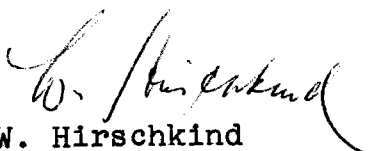
I expect to attend theACHEMA meeting in Frankfurt this year, arriving on or about May 14. I surmise you might also attend this meeting. I also plan to be in Milan shortly after the meeting and hope to visit you at your laboratories as well as the Montecatini people. The research director of our Plastics Department will accompany me.

I do not know whether you have been informed that our company has become a licensee of the Ziegler process and we are already producing material in a pilot plant.

Our mutual friends, Dr. and Mrs. Reti, were in California as well as in Midland, Michigan, during January but have now returned to Argentina. As you probably have heard he is no longer active in Atanor, although he is still on their board of directors.

My wife, who is accompanying me to Europe, joins me in sending our best wishes to Mrs. Natta and yourself and we are looking forward to seeing you either in Frankfurt or Milan.

Sincerely yours,


W. Hirschkind

WH:JED

March 8, 1955

Mr. W.Hirschkind
The Dow Chemical Company
Western Division
Post Office Box 351
PITTSBURG - California

Dear Mr.Hirschkind,

I received your letter of March 4, and I shall be very glad to see you in Milan in May. Mrs.Natta also looks forward to seeing Mrs.Hirschkind.

I am very pleased that the Dow Company has become a licensee of the Ziegler processes because I think they are very interesting. We have been working from the 1953 in this field and in similar fields. The Montecatini Society, that has been perhaps the first Society in Europe that made an agreement with Ziegler, is also producing some new products in a pilot plant. As I know that the Montecatini Society is in good relations with the Dow Company, so I think that the Montecatini people will be pleased to meet you in Milan during your visit in Italy.

Now we are working very hard about the Polymerizations also with some methods differing from the Ziegler's ones. We found the way of preparing "isotactical" polymers, that is, polymers containing along the chain, series of asymmetrical carbon atoms with the same ~~same~~ steric configuration.

In one of the March issues of the Journal of the American Chemical Society it will appear a letter concerning the characteristics of the "isotactical" polymers we sent to the Editor. I think that we could be interested in the "isotactical" polystyrene that is a crystalline solid till at 210-230°C (410-445°F).

With best regards,

Yours sincerely,

G.Natta

November 5, 1957

Mr. W.Hirschkind
The DOW Chemical Company
Midland, Michigan
USA

N° 1853/

Dear Mr. Hirschkind,

I am very glad to have had the pleasure to meet you in Milan and I thank you very much for your very kind letter of October 23 and for the patent attorney you indicated.

In regard to the polypropylene samples sent to you from ing. Ballabio, they correspond to the present production in Ferrara.

New methods of polymerization studied ⁱⁿ our Laboratory will allow to obtain also commercially products more crystalline and therefore, with better properties than those you received.

With my best personal regards,

Very sincerely yours,

(G. Natta)



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

October 23, 1957

Professor Giulio Natta
54 via Mario Pagano
Milan, Italy

Dear Professor Natta:

Referring to our discussion in Milan on your U. S. patent application on manufacture of succinic acid which met final rejection on September 2 due to the ineptness of your present attorney, Mr. Hochwald. The usual procedure is to revoke the power of attorney of Mr. Hochwald and convey the same to a new attorney of your selection. This would give him immediate access to the files of your case in the U. S. Patent Office. Our Patent Department has recommended the following firms:

Hammond & Littell
350 Madison Avenue
New York 17, New York

Buckman & Archer
135 East 42nd Street
New York 17, New York

An individual attorney well-known and recommended by our people is

Mr. Thomas Graham
60 East 42nd Street
New York 17, New York

You may possibly get from him more prompt and individual service than from the larger firms.

My colleagues here in Midland were very much pleased with the sample of Moplen M/2 which I brought with me, and we are looking forward to

Professor Giulio Natta

2.

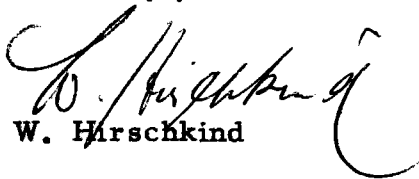
October 23, 1957

the larger samples Mr. Ballabio is sending us. They will enable us to carry out tests with extrusions and injection moldings and prove to us the high quality of your product.

I hope you will not hesitate to call on me if I can be of assistance to you in the above patent matter.

Thanking you for the very cordial welcome I received in Milan, I am, with personal regards to Mrs. Natta and yourself,

Sincerely yours,


W. Hirschkind

November 20, 1955

Mr. G. A. Griess, Assistant Director
Plastics Research
The Dow Chemical Company
M I D L A N D - Michigan - U.S.A.

Rif. No. 1942/rl

Dear Dr. Griess,

I received your letter of November 14,
and I thank you very much for the information about your
vinyltoluene, and about the other Companies to which I
may address to get some compounds.

Thanking you again, I send you my best regards.

G. Natta



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

November 14, 1957

1942

Professor G. Natta
Industrial Polytechnic Institute of Chemistry
Piazza Leonardo Da Vinci 32
Milan
Italy

Dear Professor Natta:

With reference to your letter of November 6, our vinyltoluene is an isomer mixture comprising 60% meta and 40% para. The American Cyanamid Company also supplies vinyltoluene which they call methyl styrene. It is a mixture of ortho and para isomers. It is possible that they may have available some pure ortho-methyl styrene.

I can also refer you to the Koch Laboratories in England who have available laboratory quantities of vinyl xylene, vinyl naphthalene, vinyl mesitylene, and vinyltoluene.

Very truly yours,

G. A. Griess

G.A. Griess, Assistant
Director of Plastics Research

bkk

Griess
Sieresi

Lambert Prigione



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

October 31, 1957

ISTITUTO DI SCIENZE
INDUSTRIALE
* 5 NOV 1957
R 1843

Professor Giulio Natta
Industrial Polytechnic Institute of Chemistry
Piazza Leonardo da Vinci 32
Milan, Italy

Dear Professor Natta:

Following your recent discussions with Dr. Hirschkind concerning styrene derivatives, we are sending to your attention one-gallon quantities of our alpha-methyl styrene and vinyltoluene.

I am sorry to report that we do not have available any of the other substituted styrenes which you requested. I can refer you to the Borden Company, Chemical Division, Monomer-Polymer, Leominster, Massachusetts, who have available a long list of monomeric materials.

Very truly yours,

G. A. Griess, Assistant
Director of Plastics Research

bkk

*VI ringrazio per VI lettera del 21 ottobre
e per le VI informazioni sulle sostanze
e campioni di VI stirolo sostituiti.
Io ero interessato ad altre di
oltre-metil stirolo e ora a
di metil stirolo. Per favore
riguardo al vostro bel
quadro sopra 2 o 3 botti
di una un'oncia di volume
e qualche 6 tra corrispondenti*

Salute

VSA
November 6, 1957

Ref.n.1843

Mr. G. A. GRIESS, Asst. Director of
Plastics Research
The Dow Chemical Co.
MIDLAND, Michigan - U.S.A.

Dear Mr. Griess,

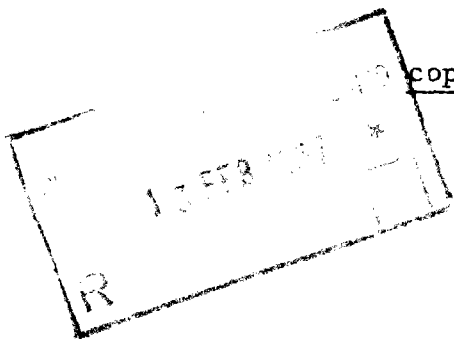
Many thanks for your letter of October 31,
and for your interest in sending to me samples of your substituted
styrenes. I was interested in getting sample of ortho-methyl sty-
rene and not of alpha-methylstyrene. As for the vinyltoluene, I
should like to know if it is a isomers mixture and its composition.

With best regards.

Very truly yours,

(G. Natta)

10
copia per conoscenza Prof. NATTA



Milan, February 12, 1957.

Dear Dr. Campbell,

Many thanks for your letter of February 5th, 1957.

I am very glad to hear that you could enjoy a well-deserved rest in Florida.

I perfectly agree with you that our two Companies are proceeding in the best way for reaching an agreement in the field in which they are interested.

When the right time has come, according to both the Dow Chemical and our Company, we could resume talks for setting the basis of an understanding of mutual satisfaction.

With best regards,

Cordially yours,

(Ing. Piero Giustiniani)

Dr. ~~Calvin A.~~ Campbell
Vice President General Counsel
The Dow Chemical Company
Midland, Michigan.

Via
W



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

February 5, 1957



Dr. Piero Giustiniani
Montecatini
Sede Milano
Via F. Turati, 18
Italy

Dear Dr. Giustiniani:

I have only recently returned from a very delightful vacation in Florida and was most happy to find your last letter.

As you know, we are not familiar with the details of your pool agreement with Professor Ziegler. Accordingly, we do not feel qualified to express an opinion concerning your rights or obligations under that agreement. In view of the arrangements we have made for future negotiations, it would seem that our companies have progressed quite well without reference to the pool agreement.

Our research people are still very interested in the polyolefin field, and we are looking forward to the meetings with you and your associates.

Please accept my kindest personal regards.

Sincerely,

Calvin A. Campbell
Vice President & General Counsel

GJW

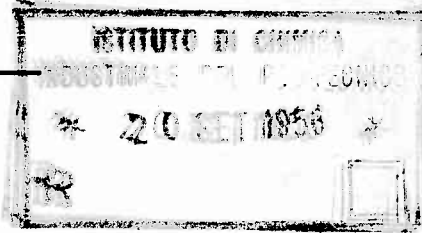
Copia f. e. Prof. Natta



dk
THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

Date 9-14-56



Dr. B. Matta
Istituto di Chimica Industriale
Milan, Italy

②
W
14/11/56

Dear Dr. Matta :

May we have 1 copy(s) of the following reprint
for a staff member :
"The Structure of Crystalline 1,2-Polybutadiene
and of Other Syndiotactic Polymers."
J. Polymer Sci. 20, 251-66 (1956)

Please let us know if there is any charge
for this material.

Thank you very much.

Yours very truly,

Library
THE DOW CHEMICAL COMPANY
Western Division
P. O. Box 351
Pittsburg, California



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

October 11, 1956

VIA AIR MAIL

POSTA IN ARRIVO
15 OTT. 1956
ING. GIUSTINIANI

Mr. Piero Giustiniani
Montecatini
Sede Milano
Via F. Turati, 18
Italy

Dear Mr. Giustiniani:

Thank you for your kind letter of October 2nd. We concur wholeheartedly in your suggestion that sometime during the first months of 1957 after your polypropylene plant is in production that we again discuss the entire matter. This, as you say, "without any engagement from both sides".

No doubt our people will be in touch with you from time to time and I am looking forward to some kind of an arrangement of a broader scope.

It was nice to see you again in New York and will you accept my kindest personal regards. We all have a high regard for your Company and for you personally.

Cordially,

Calvin A. Campbell

Calvin A. Campbell
Vice President & General Counsel

*7
For you to
Campbell
10/11/56*

October 20, 1958

W. Hirschkind
The Dow Chemical Co.,
Post Office 351
Pittsburg, California

1103/mb

Dear Mr. Hirschkind,

I have received your kind letter of september 30.

Herewith, I am sending you a reprint of the paper which corresponds to the reference n° 20 of the first work delivered at the Nottingham Conference.

As far as the n° 21 is concerned, on the "gamma" form of titanium trichloride, the work is actually in press on "Gazzetta Chimica Italiana". As soon as a reprint of it will be available, I will take care of sending you a copy.

With my best personal regards,

En.:

(G. Natta)



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

September 30, 1958

1103

Professor Giulio Natta
Via Mario Pagano 54
Milano, Italy

Dear Professor Natta:

The research group of Dow's Western laboratory at Pittsburg, California, working on polyolefins, whom you met during your visit, are interested in the papers delivered by you at the Nottingham high polymer conference. Of particular interest is your work on the 'beta'-form of $TiCl_3$ (brown) and a new 'gamma' form. The numbers 20 and 21 of your paper No. 1 refer to some as yet unpublished work.

250

We would be very grateful if we could receive reprints or copies of these papers in any language as soon as they are published.

With personal regards,

Sincerely,

W. Hirschkind

WH: jd

Handwritten notes: "Kettle", "Pom", and "Lorins" (circled)

May 14, 1958

Am

Mr. W. HIRSCHIND

The Dow Chemical Company

Western Division

P.O. Box 351

PITTSBURGH - California

Ref. No. 600/rl

Dear Mr. Hirschind,

I have come back to Milan only a few days ago from my very interesting travel through the States, and I keep a very pleasant remembrance of California.

I wish to thank deeply Mrs. Hirschind and you for all your kindnesses during our stay in San Francisco, and during our visit to your beautiful home in Martinez. We admired the very fine and artistic pictures by Mrs. Hirschind and all your home.

As you probably know, I shortened my stay in Montreal to visit Midland with Mr. Ottolenghi. Mr. Boyer was very kind to accompany us.

I thank you also for your kind sending to me a copy of the House Organ of Dow's Western Division.

I do hope that Mrs. Hirschind and you will come soon to Milan, and if you come next Summer, we hope that you will be able to visit our country house in Champoluc.

Awaiting the pleasure to meet you, I send you my best regards and wishes.

Sincerely yours,

G. Natta

May 13, 1958

Am.

Rif.n.583/e1

Mr. R.F. BOYER

Director Plastics Research
The Dow Chemical Co.

MIDLAND - Michigan (U.S.A.)

Dear Mr. Boyer,

I wish to thank you very deeply for all the courtesies I received during my stay in the United States and during my visit to Midland. I do hope that you have soon an opportunity of coming to Italy, to be able to reciprocate your kindnesses.

During my visit in Midland, I see a Beckman ultracentrifuge used for studying the molecular weight distribution. My Laboratory is interested in this field. Therefore I should like to know further information on the Beckman instrument and on its advantages in comparison with the instruments constructed in Europe, which are cheaper than the Beckman. I should be very grateful if you let me know if it is possible for your Company to permit to an assistant of mine, Dr.S.Castellano, to visit your Laboratory in Midland and to remain there some days to become expert on the use of your Beckman ultracentrifuge. Dr. Castellano is at present at the Massachusetts Institute of Technology, Department of Chemistry, Cambridge 39, and will remain in the States till next July.

With my thanks, I send you my best personal regards.

Sincerely yours,

G.Natta



file
THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

May 6, 1958

Professor Giulio Natta
Via Mario Pagano 54
Milano, Italy

Dear Professor Natta:

Enclosed is a copy of the House Organ of Dow's Western
Division which might interest you.

Best regards,

Sincerely,

W. Hirschkind
W. Hirschkind

Enc. (1)

WH:jd

March 28, 1958

Ref.No.459/rl

Dr. W. Hirschkind
The Dow Chemical Company
Western Division
Post Office Box 351
PITTSBURGH - California

Dear Mr. Hirschkind,

many thanks for your very kind letter of
March 4, 1958

My wife and I would be very pleased to accept your
kind invitation for Sunday afternoon, April 13, but till now
I have not decided a precise schedule, and therefore, I cannot
assure to be able to participate.

also
I thank you/for the invitation for the luncheon of
Monday, April 14, that I accept with pleasure.

Looking forward to seeing Mrs. Hirschkind and you,
my wife and I send you our best regards.

Sincerely yours,

G. Natta

P.S. - We shall stay at the Claremont Hotel in Berkeley from
8 till 12, and at Mark Hopkins Hotel in San Francisco
from April 13 till 19.

MEMO TO: Dr. Hirschkind

↓
- The Dow Chemical - Am.

I. We published a paper in July at the Gordon Research Conference describing our work on the mechanism of ethylene polymerization by Ziegler type catalysts. Our concept of the mechanism is as follows :

1. A transition metal salt is complexed with a Lewis Acid.
2. The complex contains an organo-metal bond.
3. The complex must also contain a vacant orbital capable of adsorbing an olefin.

The metal salt-Lewis Acid complex containing an organometal group complexes an olefin by interaction of the π -electrons of the olefin with a vacant dsp orbital of the transition metal. The alkyl group then shifts as anion to the complexed olefin. This is essentially the same mechanism proposed in Paris by Professor Natta.

Active catalysts may be prepared from any transition metal providing one uses the proper Lewis acid. Organoelemental compounds from groups II, III, IV, V and VI are all useful for supplying the organometal bond to the complex.

II. We have made polyethylene with no detachable methyl groups and no unsaturation using certain of these catalysts.

III. Polypropylene degrades rapidly on irradiation and does not cross-link as does polyethylene.

J.C. Mackey
Research Department

JCM/lh
9/13/57

May 6, 1958

Mr. John I. GREBE, Director
Nuclear and Basic Research
The Dow Chemical Company
MIDLAND - Michigan - U.S.A.

Ref.N.559/r1

Dear Mr. Grebe,

I have been very pleased to have made your acquaintance and I wish to thank you for the copy of your very interesting conference, you kindly gave me.

As soon as I arrived to Milan I have sent this copy to Prof. Polvani, Director of the review "Nuovo Cimento".

I wish to congratulate you for your very interesting works. Hoping to have soon another opportunity to meeting you, I send you my best regards.

Sincerely yours,

Giulio Natta

Sept.13, 1962

Dr.D.C.Feay, Research Dept.,
The Dow Chemical Company,
Western Division,
Post Office Box 351
Pittsburgh, California (USA)

Dear Doctor Feay,

Thank you very much for your kind letter of Sept.15.
If my state of health allows me, I will come and participate in
the S.P.E. Conference to be held in Los Angeles, in February 1963.
I shall be glad to meet you again there.

My wife joins me in sending you and Mrs.Feay kindest
regards.

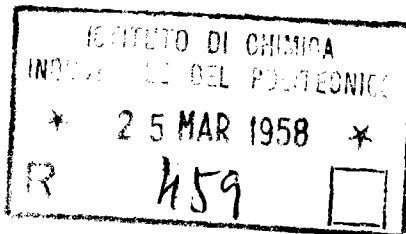
G.Natta



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

March 4, 1958



Professor Guilio Natta
Via Mario Pagano 54
Milano, Italy

Dear Professor Natta:

Professor Calvin informs me that you and Mrs. Natta expect to arrive in Berkeley, California, on or about April 8 where you will give a lecture at the University of California; also that in the following week you will present several papers at the meeting of the American Chemical Society in San Francisco.

I hope you will reserve some time to visit our Pittsburg laboratory and plant. Naturally, we expect both of you to be guests at our home also. In addition to this I would like to extend an invitation to the following events.

On Sunday afternoon, April 13, we expect to have open house for a number of visitors to the ACS meeting and their wives and my wife and I would be very much pleased if you and Mrs. Natta could also attend. On Monday, April 14, there will be a luncheon given by the Pacific Chemical Exposition which will be held in San Francisco coincidental with the ACS meeting. At this luncheon Mr. George L. Parkhurst of Standard Oil Co. of California, and myself will receive an award for contributions to the chemical industry in the West. I would be pleased if you will accept an invitation as a guest at this luncheon. I hope you will call on me for any assistance I could extend to you during your stay in California.

My wife joins me in sending our best wishes to Mrs. Natta and yourself and we are looking forward to seeing you here in April.

Sincerely yours,

W. Hirschkind
W. Hirschkind

WH:jd

*de
infermap*

1 accepted

May 25, 1962

Feu

Dr. W. Hirschkind
The Dow Chemical Co.
Western Division
Post Office Box 351
Pittsburg, California (USA)

Dear Dr. Hirschkind,

I was very pleased to meet Dr. Feay at Moretonhampstead, and I regret not having had the possibility to talk with him diffusely. However I hope to meet him in Milan again if an opportunity arises for him to come here.

Thank you very much for your greetings which I kindly reciprocate.

Sincerely yours

G. NATTA



THE DOW CHEMICAL COMPANY

September 5, 1962

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

Professor Giulio Natta
Istituto Di Chimica Industriale
Milano, Italy

Dear Professor Natta:

My wife and I were pleased and felt that it was a privilege to meet you and Mrs. Natta at the Conference on Stereospecificity in Moretonhampstead, England. I am very sorry that our schedule in Europe did not allow me to see you or Prof. Mazzanti in your laboratory in Milano.

We would be pleased if we could extend all possible assistance to you or any member of your staff when they visit this part of the United States.

Sincerely,

Daniel C. Feay
D. C. Feay
Research Department

DCF:pjb

*impressive
gentle letter
re combination
submit to journal
paper to journal
PPE
a do Angeles
Feb 20 1963
also Jones*



THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

April 25, 1962

Professor Giulio Natta
Istituto Di Chimica Industriale
Milano, Italy

Dear Professor Natta:

I take the liberty of introducing to you the bearer of this letter, Dr. D. C. Feay of our Research staff, who will attend the "Conference on Stereospecificity" at Mortenhampstead, Devon, England, during May, and "The 7th International Conference on Coordination Chemistry" in Stockholm during June of this year. At the latter meeting, Dr. Feay will present a paper entitled "A Mechanism for the Polymerization of Alpha-Olefins Using Ziegler-Natta Catalysts", prepared with the advice and collaboration of Dr. Melvin Calvin, whom you know.

I have asked Dr. Feay to make himself known to you at either of the two meetings and might mention that his mission is purely scientific as he is neither interested nor authorized to discuss any matters of business. I would be pleased if you could meet Dr. Feay and have a short discussion with him.

With personal regards,

Sincerely,

W. Hirschkind

W. Hirschkind

*mi è piaciuto
al mio
potete parlare
con lui + diffu-
samente me
spiegare perché
Milano se non
giorno*

*ho avuto
piace di
Feay
mi
relati
che
antropomorfici*



Am

THE DOW CHEMICAL COMPANY

WESTERN DIVISION
POST OFFICE BOX 351
PITTSBURG CALIFORNIA

March 21, 1960

Professor Giulio Natta
Via Mario Pagano 54
Milano, Italy

Dear Professor Natta:

I wish to acknowledge your confidential letter regarding the polystyrene situation in Italy and more particularly the entry by Dow into the manufacture of this product in your country.

You may be assured that such a move by Dow was carefully considered in all its aspects before the decision was reached and I will try to give you, in confidence, some of Dow's reasons:

Dow was, as you know, the pioneer and sole manufacturer of styrene and polystyrene in the U.S.A., having perfected the process just before the outbreak of World War II. Because of the importance of styrene and polystyrene in the war effort, especially in the synthetic rubber program, the U. S. government asked Dow to make its process and know-how available to a number of other manufacturers in order to cope with the impending and very heavy demands. Notwithstanding the competition which developed after the war both in the foreign and domestic fields, Dow was able to maintain its lead because of the superiority of its products. To this we attribute the demand which our polystyrene products enjoyed in Italy as well as in other European countries over a number of years, which is perhaps the most important factor in our decision to produce in Italy.

I feel certain that Montecatini's decision to build a polypropylene plant in the United States was made with full knowledge of the marketing potential including the possibility of an oversupply of this product in the U.S. market. Nevertheless Montecatini undoubtedly is firmly convinced that they have acted in their best interest just as we believe that our decision was in the best interest of Dow.

Professor G. Natta

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March 21, 1960

I confidently hope that either decision might not become the basis of a misunderstanding between Montecatini and Dow.

Looking forward to meeting you in Italy during this year, I remain, with best personal regards to Mrs. Natta and yourself, as well as to all of your family,

Sincerely,

A handwritten signature in cursive script, appearing to read 'W. Hirschkind', written in dark ink.

W. Hirschkind

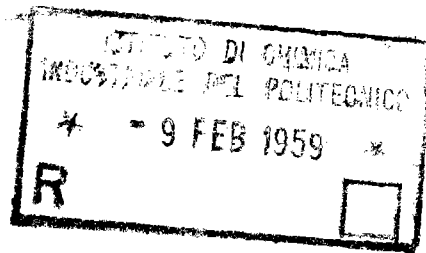
WH:jd



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

February 5, 1959



Prof. and Mrs. G. Natta
Industrial Polytechnic Inst. of Chemistry
Piazza Leonardo Da Vinci, 32
Milan, Italy

Dear Prof. and Mrs. Natta:

I was most pleased to receive a copy of your very original and ingenious Christmas greeting card featuring an "isotactic" Christmas tree.

Sincerely yours,

Raymond Boyer

R. F. Boyer
Director of Plastics Research

RFB/mls

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