

"MONTECATINI"

SOCIETÀ GENERALE PER L'INDUSTRIA MINERARIA E CHIMICA

AMMINISTRATORE DELEGATO  
G/ra

*Sun Oil  
Am.*

Telegrammi GABBRO MILANO  
Telefono 6333  
Telefoni interurbani  
chiedere GABBRO MILANO  
SEDE MILANO  
Via F.Turati, 18

Milano, 25 maggio 1957

Caro Natta,

mi auguro che l'aria di Champoluc - speriamo che non piova come qui ! - sia balsamica per la Sua pronta guarigione.

Le rimetto copia dello scambio di corrispondenza avuto con il Prof. Pino.

In effetti questo Dr. Groves mi ha fatto l'impressione proprio di un esaltato. Se avessi avuto qui sotto mano uno di quei prodotti "tranquillizzanti", sarebbe stato questo il primo campione che avrei dato per uno scambio di informazioni !

Con molta serenità ho accolto l'informazione che ~~la Sun Oil~~ ha ben tre procedimenti per produrre il polipropilene, indipendentemente da quelli nostro e Ziegler. Se tanto mi da tanto in America devono averne almeno altri ventisette !

Per finire il discorso, diventato ad un certo momento troppo lungo, ho detto al Dr. Groves che gli avremmo mandato, nel prossimo luglio, un campione di 20 lbs. del nostro polipropilene cristallino, con l'impegno, da parte loro, di inviarcene altrettanto di loro produzione.

Cordiali saluti.

2 allegati

Preg.mo Signor  
Prof. GIULIO NATTA  
CHAMOPLUC

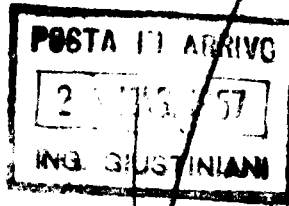
*Antoni*  
*Sia esportato*  
*Pr*

ISTITUTO DI CHIMICA GENERALE

UNIVERSITÀ DI PISA

VIA RISORGIMENTO, 19 BIS - TELEF. 31-71

IL DIRETTORE



Pisa.

21 - 5 - 1957

Egregio

Ing. Piero Giustiniani

Amministratore Delegato della Soc. Montecatini

Via F. Turati 18

M I L A N O

Oggetto: Visita del Dr. K. D. Groves della Sun Oil Comp.

Egregio Ingegnere,

desidero informarla che mi sono incontrato nei giorni scorsi col dott. K. D. Groves della Sun Oil Co. attualmente in Italia per rendersi conto delle possibilità di far effettuare ricerche per conto della sua ditta da parte di laboratori italiani.

Nel corso delle conversazioni avute ho potuto avere alcune informazioni sull'attività della Sun Oil Co. nel campo delle poli  $\alpha$ -olefine. La Sun Oil ha depositato negli ultimi due anni 58 brevetti sulla polimerizzazione delle  $\alpha$ -olefine a polimeri cristallini e amorfi. Tali brevetti sarebbero stati depositati solo negli U.S.A. e riguarderebbero un nuovo procedimento per la produzione, particolarmente, di polimeri cristallini del propilene in assenza di composti metallo alchilici. Attualmente la stessa Società avrebbe in marcia due impianti pilota da 1 t giorno per la produzione del propilene.

Per quanto riguarda la situazione brevettistica la Sun Oil ritiene che il suo processo sia indipendente dai brevetti Ziegler e Natta; per quanto riguarda il brevetto di prodotto pensano di rivolgersi alla Montecatini dopo che essa avrà ottenuto i brevetti.

Voglia gradire, Egregio Ingegnere, i miei migliori saluti

(Prof. Piero Pino)

P. Pino

A handwritten signature in dark ink, appearing to be "P. Pino", written in a cursive style.

1770 A

# SUN OIL COMPANY

1608 WALNUT STREET

PHILADELPHIA 3, PENNSYLVANIA

SEARCH AND DEVELOPMENT DEPARTMENT

August 3, 1956

J. BENNETT HILL, DIRECTOR  
CHARLES L. THOMAS, ASSOCIATE DIRECTOR  
JAMES I. HARPER, ASSISTANT DIRECTOR  
JOHN G. MOXEY, JR., ASSISTANT DIRECTOR  
NORMAN THOMPSON, ASSISTANT DIRECTOR

*Am*

Professor Giulio Natta  
Istituto Di Chimica Industriale Del Politecnico  
Piazza Leonardo Da Vinci, 32 - Milano  
Italy

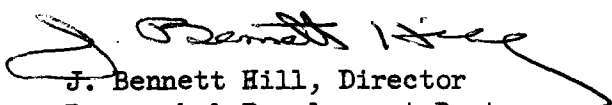
Dear Dr. Natta:

I very much appreciate your gracious note of July 30. As you request I am passing on your good wishes to the others who joined with us.

We were very happy to have had you at our refinery and to have had the opportunity to become acquainted with you and Mrs. Natta and Professor Pino. I join you in hoping we may meet again sometime.

With best regards,

Very sincerely yours,

  
J. Bennett Hill, Director  
Research & Development Dept.

JBH:ap

*Non  
6/27/56  
[unclear]*

875#

July 30, 1956

Mr. J. Bennet Hill, Director  
Research & Development Dept.  
Sun Oil Company  
1603 Walnut Street  
PHILADELPHIA 3 - Pennsylvania

Dear Mr. Hill,

I am very sorry that my busy trip through the States will not permit me to write to you before my coming back to Milan, and to thank you very much for all your kindness.

The visit to your Marcus Hook Refinery has been very interesting for me and I wish to thank you and all the people of the Sun Oil that has been so kind with us.

In particular, please convey our best wishes to Mr. and Mrs. Thomas and Mr. Harper.

Hoping to have soon the pleasure to meet you again, I send you my best regards.

Very truly yours,

Ciriaco Deza

# SUN OIL COMPANY

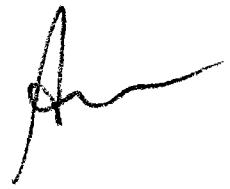
1608 WALNUT STREET

PHILADELPHIA 3, PENNSYLVANIA

RESEARCH AND DEVELOPMENT DEPARTMENT

J. BENNETT HILL, DIRECTOR  
CHARLES L. THOMAS, ASSOCIATE DIRECTOR  
JAMES I. HARPER, ASSISTANT DIRECTOR  
JOHN G. MOXEY, JR., ASSISTANT DIRECTOR  
NORMAN THOMPSON, ASSISTANT DIRECTOR

June 18, 1956



Professor Giulio Natta  
DuPont Hotel  
Wilmington, Delaware

Dear Professor Natta:

We are looking forward to your visit to us on June 22. As a result of our various conversations we have made the following tentative plans for your visit. They can, of course, be changed if some of the arrangements are not agreeable to you and Signora Natta.

I understand that Hercules will be entertaining you and your wife and Professor Pino for lunch on Friday. Mr. Albert is to let us know where this will be. Dr. and Mrs. C. L. Thomas and Mrs. Hill and I will call for you at your luncheon place at 1:00 pm. It would be convenient if you could have your luggage there with you. We will have two separate cars, one for us and one for the ladies.

Dr. Thomas and I will bring you and Professor Pino to our laboratories and refinery at Marcus Hook. We plan to have a group of our research men meet with you in our conference room for discussion until about 3:30 pm. Following that we can take you on a short trip to points of interest in our refinery. We will leave Marcus Hook about 5:00 pm and take you and Professor Pino to Philadelphia, where we will have dinner with the ladies at the Warwick Hotel. We have engaged a room at the Warwick for you and your wife to have a few minutes to relax before dinner. We have arranged dinner for 6:30 pm so that we may comfortably get you to the 8:22 train for Washington. (All times are Daylight Saving.) We are not dressing for dinner.

I understand that Signora Natta wants to do some shopping in Philadelphia at the Wanamaker Store. Mrs. Hill and Mrs. Thomas will drive here in and let her see a little of Philadelphia and its suburbs on the way. You might suggest to her that for shopping she would probably find the Wanamaker Suburban Store in Wynnewood more satisfactory than the large main store in Philadelphia. It is also very near our home and this might offer her a chance to relax in our home in the middle of the afternoon. If, however, she wants to see the Philadelphia store, the ladies can take her there directly. All of this can be arranged by the ladies when they meet. Signora Natta would be taken to her

Prof. Giulio Natta

- 2 -

June 18, 1956

room at the Warwick about 5:30 pm.

We hope that all three of you will enjoy your visit with us.

Sincerely yours,

A handwritten signature in black ink, appearing to read "J. Bennett Hill". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

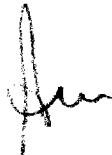
J. Bennett Hill, Director  
Research & Development Dept.

JBH:meb

Sede, 16 Aprile 1956.

Preg.mo Signore  
Ing. Piero Giustiniani,  
S e d e.

Colloquio con Mr. J.I. Harper della  
Sun Oil Company.



Dispone a Marcus Hook, a 20 miglia da Philadelphia, di 80.000 t/anno di etilene, e stà meditando di organizzare una produzione di poli-etilene secondo un proprio processo "a metà strada fra Ziegler e Phillips".

I prezzi offerti da eventuali consumatori per questo etilene a Marcus Hook variano fra 5,0 e 5,5 cents/lb, che secondo Mr. Harper rappresenta il costo compreso interessi e ammortamento, ma senza alcun utile. Giudica che il prezzo di vendita remunerativo dovrebbe essere fra 6,0 e 6,5 cents/lb.

Le ditte fabbricanti di manufatti di politene che usano il materiale Ziegler in America, non sono soddisfatte della qualità disponibile perchè si hanno corrosioni alle filiere, dovute probabilmente a presenza di residuo di catalizzatore.

Si stanno costruendo impianti per la demetilazione della metilnaftalina fatta a 200 °C in presenza di idrogeno; si ottiene metano e naftalina. Questo procedimento apporterà notevoli quantità di naftalina al mercato, in modo che non è da prevedere scarsità di questo materiale per i prossimi anni.

L. Orson

Or/sl.

498A

Acc.

# SUN OIL COMPANY

1608 WALNUT STREET

RESEARCH AND DEVELOPMENT DEPARTMENT

PHILADELPHIA 3, PENNSYLVANIA

J. BENNETT HILL, DIRECTOR  
CHARLES L. THOMAS, ASSOCIATE DIRECTOR  
JAMES I. HARPER, ASSISTANT DIRECTOR  
JOHN G. MOXEY, JR., ASSISTANT DIRECTOR  
NORMAN THOMPSON, ASSISTANT DIRECTOR

March 20, 1956

Professor Giulio Natta  
Istituto Di Chimica Industriale Del Politecnico  
Piazza Leonardo Da Vinci 32  
Milan, Italy

Dear Professor Natta:

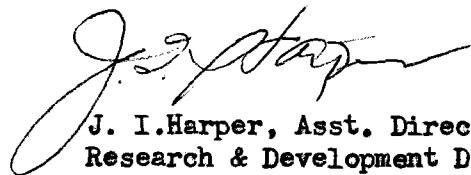
Thank you for your very nice letter of March 9, suggesting that I contact Dr. Orsoni in Milan. Quite fortuitously, just prior to receiving your letter I had the good fortune to be introduced to Dr. Orsoni during his visit to New York and have already made a date with him in Milan.

It is my misfortune that you do not expect to be in Milan during my visit, but I shall telephone your office while I am there in hopes that your plans might have changed and that you would be available.

Dr. Hill showed me your reply to his letter and I am delighted that you feel you probably may be able to visit us at the Sun Oil Company while you are in the United States.

My very best regards and thank you very much for all your help.

Sincerely yours,



J. I. Harper, Asst. Director  
Research & Development Department

JIH:mjr



# SUN OIL COMPANY

1608 WALNUT STREET

PHILADELPHIA 3, PENNSYLVANIA

*Acc.*

RESEARCH AND DEVELOPMENT DEPARTMENT

J. BENNETT HILL, DIRECTOR  
CHARLES L. THOMAS, ASSOCIATE DIRECTOR  
JAMES I. HARPER, ASSISTANT DIRECTOR  
JOHN G. MOXEY, JR., ASSISTANT DIRECTOR  
NORMAN THOMPSON, ASSISTANT DIRECTOR

March 5, 1956

Professor Giulio Natta  
Istituto Di Chimica Industriale Del Politecnico  
Piazza Leonardo Da Vinci 32  
Milan, Italy

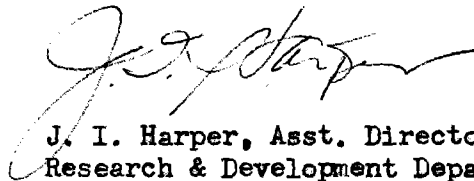
Dear Professor Natta:

You may recall that I had some correspondence with you early last fall and more recently my immediate superior, Dr. J. Bennett Hill, wrote asking you if you would be good enough to visit us when you are in the United States this summer.

Since this last correspondence I find that I will be making a trip to Europe in April and will be in Milan on April 16 and 17. I am hoping that you will be there at that time and that I can have the pleasure of meeting you. My trip to Europe is for the purpose of exchanging information on new chemical and petrochemical developments both in Europe and the United States, and I would be most happy if I could chat with you for an hour or two. I am also planning to try to see some of your associates at Montecatini.

Would you be good enough to write me, indicating whether you will be available on either April 16 or 17, and I would deem it a great favor if you could spare some of your time for me.

Sincerely yours,

  
J. I. Harper, Asst. Director  
Research & Development Department

JIH:mjr

302 A

March 9, 1956

Mr. James I. Harper, Asst. Director  
Research and Development Department  
SUN OIL COMPANY  
1608 Walnut Street  
PHILADELPHIA 3 - Pennsylvania

Dear Doctor Harper,

I received your letter just after having replied to Dr. Bennett Hill's letter.

In regard to your visit to Milan on April 16 and 17, I inform you that during April I shall be away for a long period, and so I cannot assure you if I shall be able to meet you in Milan. However, if I shall not be in Milan, you can address yourself to the Montecatini Co. (Dr. Ing. B. Orsoni, Direttore Settore Progetti e Studi, Via F. Turati 18, Milano) to obtain some information on new chemical and petrochemical developments.

With best regards.

Very sincerely yours,

Giulio Natta

283A

Am.

2/27/56  
14/14/56  
2/27/56!

# SUN OIL COMPANY

1608 WALNUT STREET

PHILADELPHIA 3, PENNSYLVANIA

RESEARCH AND DEVELOPMENT DEPARTMENT

J. BENNETT HILL, DIRECTOR  
CHARLES L. THOMAS, ASSOCIATE DIRECTOR  
JAMES I. HARPER, ASSISTANT DIRECTOR  
JOHN G. MOXEY, JR., ASSISTANT DIRECTOR  
NORMAN THOMPSON, ASSISTANT DIRECTOR

February 14, 1956

Professor Giulio Natta  
Istituto Di Chimica Industriale Del Politecnico  
Piazza Leonardo Da Vinci 32  
Milan, Italy

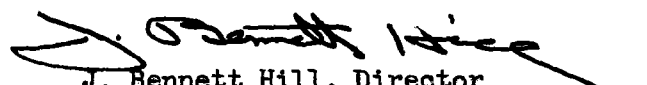
Dear Professor Natta:

We understand that you will be in the United States from approximately June 15 to the end of July, part of the time at the Gordon Research Conference in New Hampshire. While a number of our people will be at the Research Conference, we still feel that your presence in the United States is an opportunity to have you honor us with a personal visit. Specifically, we would very much like to have you talk to a small group of our Research people at our laboratories in the vicinity of Philadelphia, Pennsylvania. We are quite interested in high olefin polymers and in recent organic chemical developments in Europe. We are not looking for any very formal presentation, but merely an expression of your thoughts with perhaps a good portion of the time given to a question and answer period.

At the time of your visit we would also be happy to show you through our most recently built laboratory and perhaps you would care to take a brief tour through our Marcus Hook, Pennsylvania refinery. This refinery is one of the largest and most modern in the United States and contains several rather interesting new petrochemical plants.

Since a number of our people will be away the last two weeks in July, we would prefer to have your visit during June or the first two weeks in July. If you can work this into your schedule, we are prepared to offer you an honorarium of \$150 plus your transportation expenses from New York. We hope you can find time to work our request into your undoubtedly busy schedule. I regret that while I was in Rome last summer I did not have the opportunity to meet you but am looking forward to seeing you in America this summer.

Sincerely yours,

  
J. Bennett Hill, Director  
Research & Development Department

JIH:mjr

289 A

March 8, 1956

Dr. J. Bennett Hill, Director  
Research & Development Department  
Sun Oil Company  
1608 Walnut Street  
PHILADELPHIA 3 - Pennsylvania

Dear Doctor,

Many thanks for your letter of February 14, and for your very kind invitation.

I should be very glad to visit your laboratories and your refinery ~~at~~ Marcus Hook in Pennsylvania, but, till now, I cannot give you an exacte answer as I don't know if I shall be able to find time to do it, owing to several precedent engagements. I shall write to you again as soon as I may fixe a definitive schedule.

Sincerely yours,

Giulio Natta

# SUN OIL COMPANY

1608 WALNUT STREET

PHILADELPHIA 3, PENNSYLVANIA

RESEARCH AND DEVELOPMENT DEPARTMENT

J. BENNETT HILL, DIRECTOR  
CHARLES L. THOMAS, ASSOCIATE DIRECTOR  
JAMES I. HARPER, ASSISTANT DIRECTOR  
JOHN G. MOXEY, JR., ASSISTANT DIRECTOR  
NORMAN THOMPSON, ASSISTANT DIRECTOR

August 30, 1955

(298)  
America

Dr. Guilia Natta  
Milan Polytechnic Institute  
Milan, Italy

Dear Dr. Natta:

The Sun Oil Company is interested in investigating processes for the manufacture of polyethylene, polypropylene and polystyrene. We would like to know if you have either a commercial or semi-commercial process for the manufacture of any or all of these plastics.

We have addressed this correspondence to you, as we have gathered from various trade journals that you are an expert on low pressure catalyst polymerization of olefins. From your vast experience and broad contacts in this field you undoubtedly can direct us to the proper channels for this information. Any information that exists on any of these products will be welcome; however, our chief interest is in polypropylene.

We trust you have not been inconvenienced to any great extent by this request.

Sincerely yours,



J. I. Harper, Asst. Director  
Research & Development Department

JIH:KGD/mjr

270  
September 16, 1955

Mr. J. I. Harper, Asst. Director  
Research & Development Dept.  
Sun Oil Company  
1608 Walnut Street  
Philadelphia 3, Pennsylvania

Dear Mr. Harper,

Referring to your letter of August 30, I inform you that all my patents on the poly-alpha-olefins (also those requested in the U.S.A.), belong to the Montecatini Company. Therefore, you can address yourself directly to:  
Ing. B. Orsoni, Direttore Settore Progetti e Studi - Società Montecatini - Via F. Turati 18 - Milano - Italy

I am sending you, under separate cover, some reprints of my papers on this subject.

With best regards, I am,

Yours sincerely,

Giulio Natta