

GOOD YEAR

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

*Am*  
~~Richard~~  
~~C. H. H.~~

Jan. 19, 1967

Professor Giulio Natta  
 Ist. Chim. Ind. del Politecnico  
 Piazza Leonardo da Vinci, 32  
 Milano, Italia

Dear Professor Natta:

I would like to express my appreciation to you for the opportunity of having spent the last 14 months at your Institute. Unfortunately, since I left Italy during the holiday season, I was unable to thank you personally for this wonderful experience.

In addition, I am deeply indebted to Prof. Porri and the people in his laboratory for making my stay such a pleasant one and quite worthwhile from the scientific point of view.

Thanking you again,

Sincerely yours,  
 Thomas L. Hanlon

GORDON RESEARCH CONFERENCE ON ELASTOMERS

Colby Junior College  
New London, New Hampshire

July 30 to  
August 3, 1956

B. S. Biggs, Chairman  
E. E. Gruber, Vice Chairman

- July 30 - "Adhesive Bonding of Metals", S. N. Muchnick  
"Fundamentals of Rubber Adhesion", D. M. Alstadt  
"Crystallinity and Orientation in Organosiloxane  
Polymers", a) X-ray Diffraction Studies - S. M.  
Ohlberg and L. E. Alexander. b) Physical  
Measurements - E. L. Warrick
- July 31 - "Synthesis by Anionic Polymerization of New  
Elastomers and Unsaturated Crystalline Polymers",  
G. Natta  
General Discussion of Synthesis and Properties of  
Cis Polyisoprene and Related Polymers  
"Biosynthesis of Rubber", W. S. McNatt
- August 1 - "Formation and Properties of Networks Involving  
Addition Polymers Having Reactive End Groups",  
R. M. Pierson  
"Interaction Between Rubbers and Fillers",  
H. Westlinning  
"The Significance of Swelling Equilibria in Carbon  
Black Reinforced Elastomers", G. Kraus
- August 2 - "Reinforcement by Fine Particle Silica", J. W.  
Sellers, D. Inman and M. P. Wagner  
"A Diffusivity Approach for Studying the Molecular  
Structure of Elastomers", I. Auerbach, W. C.  
Kuryla and S. D. Gehman  
"Recent Developments in Theories of Elastic Behavior  
and Mechanical Failure of Rubber", L. Mullins
- August 3 - "Dynamic Properties of Strained Elastomers",  
K. W. Scott  
"Stress Relaxation of Natural Rubber Vulcanizates",  
J. P. Berry

GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

January 18, 1956

Dr Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, ITALY

Dear Professor Natta:

It was indeed a pleasure and privilege to meet you last month on my trip to Europe. After leaving Milan, I flew directly home and was able to get back in time to spend the holidays with my family.

I enjoyed our discussions of your work very much and cannot help but feel that there will be great interest in commercializing some of the polymers you have developed. We are most anxious to keep in close touch with you and Montecatini in the hope that some mutually satisfactory and beneficial arrangement can be made.

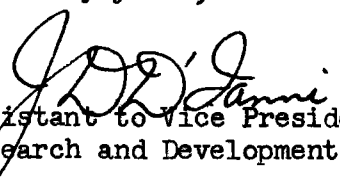
I would greatly appreciate it if you can keep us informed as to when will be a proper time for future discussions.

You were most generous with your time and I appreciate deeply the courtesies and the hospitality extended to me by you and Mrs Natta.

As soon as your schedule is more definite, please let me know about your plans to visit our Country with Mrs Natta, and in particular if it will be possible for you to come to Akron. I am sure that you would find a trip here most interesting, since this is the center of the rubber industry in this Country.

My kindest regards to you and Mrs Natta.

Sincerely yours,

  
Assistant to Vice President  
Research and Development

J D D'Ianni  
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26 11  
January 27, 1956

*Am*

Dr. J. D. D'Ianni, Assistant to  
Vice President - Research & Developm.  
The Goodyear Tire & Rubber Company  
A K R O N 1 6 = OHIO = U. S. A.

Dear Dr. D'Ianni,

I was very pleased to have made your acquaintance in Milan and to have discussed with you on several problems of mutual interest.

I think that Montecatini Co. will be ready shortly to negotiate abroad licensees on polypropylene, and on some co-polymers. On the contrary, in regard to the field of diolefins polymers, it is probable that Montecatini prefers to wait that the patents situation is clarify better and that the study of the uses of different new products is more developed.

I foresee to come to the U.S.A. during the first days of June and to stay there till the first week of August. If it is possible, I shall be very pleased to come for a day to Akron.

With my best personal regards, I am,

Very sincerely yours,

G. Natta



HOTEL GEORGE V  
31 AVENUE GEORGE V  
PARIS

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TÉLÉGR. GEORGEOTEL-PARIS

11 DIC. 1956  
R 852

Sunday Dec. 9

Dear Prof. Natta,

Thank you very much for your letter of Nov. 27

I shall be in Milano from Sunday noon Dec. 16  
to Tues. afternoon Dec. 18, staying at the  
Palace Hotel.

If it is convenient, I should like to see you  
on the morning of Dec. 18, and hope you can be  
my guest at lunch.

Sincerely yours,

J. D. Janni

P.S. Can Mrs. Natta join us?

13th December 1956

Mr. J. D. D'Ianni  
c/o Palace Hotel  
Piazza Repubblica 20

M I L A N O

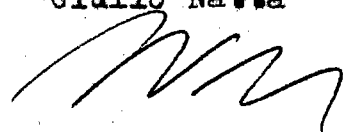
Dear Mr. D'Ianni,

I received your kind letter of December 9 and I wish to inform you that I shall be in Rome from December 14 till 16. In the evening of December 16, Sunday, I shall return to Milan to continue to Basel. I hope I may be back on December 17 in the evening and so I shall be glad to see you Tuesday in the morning. As soon I shall arrive to Milan I telephone to you at the Palace Hotel to confirm the appointment.

With best regards.

Sincerely yours,

Giulio Natta



GOOD YEAR

**The Goodyear Tire & Rubber Company, Inc.**

AKRON 16, OHIO

November 19, 1956

AIR MAIL

Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, ITALY

Dear Professor Natta:

I am indeed sorry that you and Mrs Natta were unable to come to Akron on your visit to the States last Summer. However, I understand that you visited our synthetic rubber plant at Houston and had an excellent opportunity to see how synthetic rubber is manufactured in this Country.

In a few days I am planning to leave again for another trip to England and the Continent. I hope to visit Milano again about the middle of December.

It will be a pleasure to see you again and I am hoping that you will have a little time available to spend with me then.

Best personal regards.

Sincerely yours,

  
Assistant to Vice President  
Research and Development

J D D'Ianni  
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\* 23 NOV. 1956

R 728

AM

November 27, 1956

Mr. J. D. D'Ianni, Assistant to Vice  
President - Research and Development  
The Goodyear Tire & Rubber Company Inc  
A K R O N 1 6 = OHIO = U. S. A.  
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Dear Mr. D'Ianni,

I received your kind letter of November 19, 1956  
and I shall be pleased to see you during your visit to Europe.  
I wish to inform you, however, that I shall be in Milan probably  
only from December 3 to 12 and from December 18 to 22, 1956.

Hoping these dates will be convenient for you, I  
send you my best regards.

Sincerely yours,

G. Natta



GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

RESEARCH DIVISION

November 2, 1956

Dr G Natta  
Istituto di Chimica Industriale  
Politecnico di Milano  
Milan, Italy

Dear Dr Natta:

I would like to obtain a copy of your paper entitled, "Synthetic Rubbers", which appeared in "Aspects Generaux de la Science des Macromolecules", 1955, pg. 69-86. This reference was taken from the September, 1956, issue of Rubber Abstracts, No. 3806.

If copies of this paper are available, will you please forward one to me.

Sincerely,

*Lora C. Straka*

Research Librarian

LES/ma

8587  
July 27, 1956

*the* Mr. J. D. D'Ianni  
Assistant to Vice President  
Research and Development  
Goodyear Tyre and Rubber Co.  
AKRON 16 - OHIO

Dear Mr. D'Ianni,

I regret very much that I had to renounce to my visit to your laboratory in Akron, because of some unforeseen developments I had to shorten my stay in your country and to modify the program that Prof. Mark kindly planned for me.

In the week before my departure, I had to go in Houston and I took this opportunity for visiting also the Plant of your Company.

I hope to have soon an other opportunity to meet you in Italy or in the States.

Thanking you again for your kind invitation, I send you my best wishes.

Very sincerely yours,

Giulio Natta

760A

**GOOD YEAR**

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

April 30, 1956

*Am*

*Dr. Natta  
11/11/56*

Dr Giulio Natta  
Istituto di Chemica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, ITALY

Dear Professor Natta:

It is with a great deal of pleasure that I anticipate your visit to our Country this Summer. I can see that you will be a very busy man, since you are scheduled to appear on the programs of three of the Gordon Research Conferences in June and July.

I am still hoping that, on your forthcoming visit, you will be able to come to Akron and spend a day with us at Goodyear. It will be particularly pleasant if you are able to bring Mrs Natta with you as well.

You indicated in your previous letter that it might be possible for you to come to Akron for a day or so. If your plans are more definite now, I shall be pleased to hear from you so we can know when to expect you. If there are any arrangements, such as hotel reservations, that we can make for you, we shall be most happy to do so. Please give my regards to Mrs Natta and your associates at Montecatini.

I should also mention that I talked on the 'phone the other day with Dr DiNola. He and Dr Fornara are in this Country now and are planning to visit us at Goodyear in about ten days.

Sincerely yours,

*J. D. D'anni*  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

5637  
May 9, 1956

*Am*  
Mr. J. D. D'Ianni  
Assistant to Vice President  
Research and Development  
The Goodyear Tire & Rubber Co.  
A K R O N 1 6 = OHIO = USA

Dear Mr. D'Ianni,

I thank you very much for your kind letter of April 30. I am glad to inform you that I think I shall come to Akron on July 10 or 11, and I ~~hope to be able to~~ <sup>is my program</sup> visit your Company *on July 11 -*

I shall be more precise later, as soon as possible, but I wish to inform you that I leave Milan to the United States on June 4 and I foresee to stay in the U.S.A. till the first days of August.

With best regards, I am,

Very truly yours,

Giulio Natta

1° Marzo 1957

Egr. Sig. Ing. Piero GIUSTINIANI  
Amministratore Delegato

Soc. " Montecatini "

S e d e

Caro Ingegnere,

leggo un articolo di J.D. D'Ianni della  
"Goodyear Tire and Rubber Co.", intitolato "Look again at the  
Synthetic Rubber Industry" e pubblicato su "Petroleum Refiner"  
(dic.1956), dove sono citati, oltre ai lavori della Firestone,  
Goodrich e Goodyear sul poliisoprene, anche quelli della Phillips  
dell'aprile 1956 e di Aries del settembre 1956 sui polibutadieni.

Non vengono minimamente citati i nostri lavori sui polibuta-  
dieni, sebbene siano antecedenti. E' vero che noi non abbiamo pub-  
blicato nessun dato tecnologico, relativo all'impiego come gomma  
dei polibutadieni (al di fuori dei brevetti) e ciò forse può giusti-  
ficare in parte la dimenticanza di D'Ianni.

Il fatto però che tutti i gommisti si affrettino a pubblicare  
i loro risultati sulle nuove gomme mi fa temere che la nostra poli-  
tica del silenzio non sia quella giusta, almeno per la mentalità  
americana e per un campo in cui la situazione brevettuale appare  
assai complicata.

Cordiali saluti.

G.Natta

P.S. - Ho pensato che sarebbe bene far notare a D'Ianni la sua dimer-  
ticanza. Dato che avevo conosciuto D'Ianni due anni fa a cena  
di Di Nola, avrei preparato l'allegata lettera per Di Nola,  
affinchè sia lui ad informarlo. Prima di mandargliela, gradirei  
sentire se Lei non ha nulla in contrario.

All. bozza di lettera per Dr. Di Nola.

AIR MAIL  
GOOD YEAR

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, Italy



Dear Professor Natta:

Thanks very much for your letter of May 3 enclosing a list of references of your work on stereospecific polymerization. I also appreciate very much your sending me reprints of a number of your articles, as well as a copy of the paper that you presented at the conference in London recently.

At the time that I prepared my short article on Synthetic "Natural" Rubber, not all of this information had been published and, therefore, was unavailable for my use. You will notice, of course, that I did refer to your work on the crystalline polymers of butadiene and gave some key references on your development of the isotactic and syndiotactic polymers.

I was not sure from your letter whether or not you thought it was desirable to make some changes in my article and give a more complete listing of the papers and patents. It is very doubtful that I can make any substantial change in this article at this date, but, if there are any specific references that you would like to have included in addition to the ones that I have already listed, I shall be glad to try to make such changes in the manuscript. However, it is evident to me that sufficient references to your work have been made in this short article so that the reader is well aware of the important part that you have played in the research work in this area.

Mr Pierson tells me that he enjoyed meeting you very much at the London Conference and had the opportunity of discussing these interesting polymers with you. I am hoping to make another trip to Europe later this year, and perhaps we shall have an opportunity again to discuss these very interesting developments in the synthetic rubber field.

Best personal regards.

Sincerely yours,

*J. D. Ianni*  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

*Letter from Gi. Pierson*  
*[Signature]*

GOOD YEAR

**The Goodyear Tire & Rubber Company, Inc.**

AKRON 16, OHIO

*reynolds*

March 18, 1957

Dr Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, ITALY

ISTITUTO DI CHIMICA  
INDUSTRIALE DEL POLITECNICO  
\* 3 APR. 1957  
R 781 *Stu*

Dear Dr Natta:

Recently I prepared for the Encyclopedia of Chemical Technology an article summarizing the work that has been done on the synthesis of "natural" rubber. This volume of the Encyclopedia will probably be published later this year and I thought you might be interested in getting an advance copy of my article.

*reynolds*

Best personal regards.

Sincerely yours,

*J D D'Ianni*  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

Enclosure

*8*

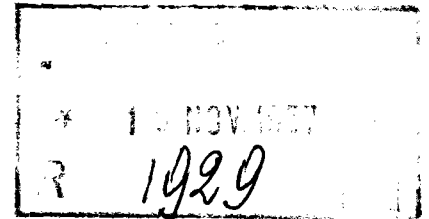
GOOD YEAR

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

*Am:*  
November 13, 1957

Professor Giulio Natta  
Istituto di Chemica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milan, ITALY



Dear Professor Natta:

I enjoyed my recent visit with you very much, since it gave me another opportunity to become acquainted with the recent work that you are doing, especially in the field of elastomeric copolymers. As you know, this is a field of great interest to us and I hope that something can be worked out so that this information can be commercialized in the United States by our Company.

While I was in Europe, I helped our Chemical Division with the presentation of information on synthetic rubber at seminars in Hannover and Paris. I am enclosing, for your information, a copy of some of the remarks I made concerning the advances in synthetic rubber research in the United States.

If you are planning to visit the States next year, please be sure to visit us in Akron, as you shall be very welcome here.

My kind regards to you and Mrs Natta for a most pleasant visit in Milan.

Sincerely yours,

*J. D. D'Ianni*  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

Enclosure

*response to inquiry and*  
*11*



*Prof. Natta*

G/AI

Milan, November 18, 1957

*The Goodyear*

Dear Dir. D'Ianni,

Many thanks for your letter of November 13th.

Indeed it was a great pleasure for me too to meet you here on the occasion of your short stay in Italy.

With regard to polypropylene and prospective extensions of the same to the elastomers field, I am glad to hear you confirm the interest of your Group in this respect.

The technical experience and background of Goodyear have a great weight for me in connection with the appreciation expressed by you about our studies in this field.

I reserve to send you as soon as possible the draft mentioned during our talks. Such draft will envisage only conditions of general and particular nature, without any reference to figures which could, instead, be put forth within a certain time, should your Company be still interested in the matter and should our studies have reached then a more advanced stage, as we strongly wish.

I thank you once more for your kind invitation to visit you at Akron. While assuring you that if my program of visits to the States is maintained I will be very pleased to accept it, I take this opportunity for conveying to you my best personal regards.

Yours sincerely,

(Ing. Piero Giustiniani)

MR; J. D'IANNI  
The Goodyear Tire and  
Rubber Company  
AKRON 16, Ohio.



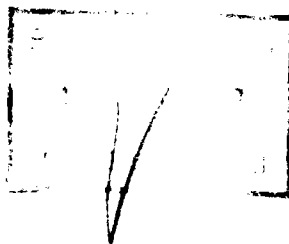
**GOOD YEAR**

# **The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

November 13, 1957

Dr Ing Piero Giustiniani  
MONTECATINI  
via F Turati, 18  
Milan, ITALY



Dear Dr Giustiniani:

It was a great pleasure for me to meet you on my recent trip to Milan.

Your development of the polypropylene project is certainly a very impressive one, and I was glad to be brought up to date on your progress in this field.

We are very much interested in continuing our discussions with respect to Professor Natta's work in the field of elastomeric polyolefines, and will be looking forward to receiving from you a tentative proposal with respect to the licensing of the information in this field.

I was also glad to hear that you and possibly Professor Natta are planning to visit the United States again next year. If this visit should materialize, I should like to extend an invitation to both of you to visit us here in Akron, as you will be most welcome.

Sincerely yours,

Assistant to Vice President  
Research and Development

J D D'Ianni  
t

Goodyear  
USA

copia p. c. PROF. NATTA

1957  
23 OTT 1957  
R 1797

Milan, October 25, 1957

Dear Mr. D'JANNI,

I received your letter of October 22nd  
addressed to me from Paris, and agree to see you at my office  
on Wednesday October 30th, at 10 hours a. m.

Looking forward to the pleasure of meeting  
you soon, I beg you to accept my best personal regards.

Yours sincerely,

(Ing. Piero Giustiniani)

Mr. J. D. D'JANNI  
c/o Palace Hotel  
Milan.

*America*

3 Ottobre 1957

N° 1607/

Mr. J. D. D'IANNI  
Assistant to Vice President  
Research and Development  
THE GOODYEAR TIRE & RUBBER Co.  
AKRON, 16 Ohio (USA)

Dear Mr. D'Ianni,

From your letter of 18th September, I learn with pleasure that in October you will come in Milan.

I am very pleased to meet you in Milan and I looking forward to seeing you.

Best personal regards

Sincerely yours,  
(Prof. G. Natta)

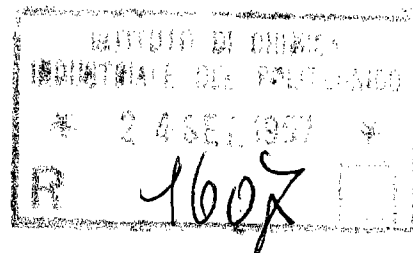
GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

September 18, 1957

Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milan, ITALY



Dear Professor Natta:

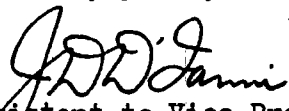
I am hoping to have the pleasure of visiting with you again next month when I shall be taking my annual trip to Europe. My plans are to be in Milan on Tuesday and Wednesday, October 29th and 30th, and I hope that you will be available for a brief visit sometime in that period.

I hope that there will be an opportunity to discuss some of your recent work in polymers, particularly for the preparation of rubber-like polymers from the olefins and diolefins. As you probably know, we are interested in discussing this further with the Montecatini people.

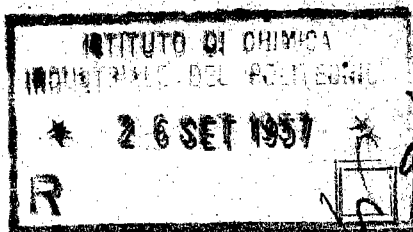
All of my previous visits with you have been most pleasant and enjoyable, and I am, therefore, looking forward to seeing you again.

Best personal regards.

Sincerely yours,

  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t



copia p. c. PROF. NATTA

Milan, September 25, 1957

Dear Mr. D'Ianni,

I received your letter of September 19th, 1957.

I perfectly recall the visit which Mr. Pierson paid to us and the talk I had with him with regard to the possibility of an understanding between us for the manufacturing of elastomeric polymers of alpha-olefins and dienes.

I will be very glad indeed to have another exchange of views with you here in Milan on Tuesday October 29th at 4 hours p. m.


Since you are already on the continent, I believe that I am not imposing to you a sacrifice by asking you to make a flight to Milan even though our conversation may be just a preliminary contact in respect to the agreements which we will be glad to examine with your Company.

With my best personal regards,

Yours sincerely,

; (Ing. Piero Giustiniani)

Mr. J. D. D'Ianni  
The Goodyear Tire and Rubber Co.  
AKRON 14 Ohio.



May 3, 1957

Mr. J. D. D'IANNI  
Assistant to Vice President  
Research and Development  
The Goodyear Tire & Rubber Co., Inc.  
A K R O N 16 - Ohio - U. S. A.

N° 781/

Dear Mr. D'Ianni,

I thank you very much for sending me your paper for the Encyclopedia of Chemical Technology, which I read with great interest.

As I believe that you only know part of our papers, I am sending you, under separate cover, the reprints of some of my papers concerning stereospecific polymerizations. I send you also a copy of the lecture I held in London last March at the International Symposium on Synthetic Rubber, and a list of our patents already published.

I think that you might like to report also what has been done in Italy in the field of synthetic rubber, and, therefore, I wish to give you some information on the development of our research work in this field.

I believe that we were the first to polymerize diolefines to crystalline polymers, using Ziegler type catalysts.

We certainly were the first to prepare all the four different crystalline stereoisomers of diolefine polymers. Our scientific papers on the crystal structure of the pure stereoisomers of polybutadiene were published in the "Rendiconti dell'Accademia Nazionale dei Lincei" Rome, June 1956 on the structure of the 1,4-trans polymer, November 1955 on 1,2 syndiotactic polybutadiene, May 1956 on isotactic polybutadiene, and in the "Zeitschr. für Angew. Chemie", October 1956 on 1,4 cis polybutadiene.

We know of course of the Goodrich, Phillips, I. C. I., Du Pont, Aries, etc. patents on polymerization of diolefines to 1,4 polymers, most of which were filed after our first application in Italy on March 1955.

As for Aries, the structure that he attributes to 1,4 cis polybutadiene, does not seem to be correct; the structure he gives corresponds to the one that may be calculated theoretically, assuming the molecule to be planar; however the 1,4 cis polybutadiene molecule is not planar, and therefore the

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Maj 3, 1957

Mr. J. D. D'IANNI

The Goodyear Tire & Rubber Co., Inc.

Akron 16 Ohio

2°

data of Aries do not correspond to the real ones, found by us.

On ethylene-propylene copolymers and on elastomers obtained from them, we filed a series of patent applications from 1954 to 1956; I am enclosing a list of the patents issued so far.

I believe that we have been doing a pretty good job in the field of stereospecific polymerization, also as regards rubberlike products, and that our patent position is rather good. I think you should take this work under consideration in your publications on this subject.

I hope to see you in Italy soon. With best regards,  
I am,

Sincerely yours,

Giulio Natta

Encl.



April 27, 1957

Rif.n.781/r1

Mr. J.D.D'IANNI  
Assistant to Vice President  
Research and Development  
The Goodyear Tire & Rubber Co., Inc.,  
A K R O N 16 - Ohio - U.S.A.

Dear Mr. D'Ianni,

I thank you very much for sending me your paper for the Encyclopedia of Chemical Technology, which I read with great interest.

As I believe that you only know part of our papers, I am sending you, under separate cover, the reprints of all my papers concerning stereospecific polymerizations. I send you also a copy of the lecture I held in London last March at the International Symposium on Synthetic Rubber, and a list of our patents already published.

I think that you might like to report also what has been done in Italy in the field of synthetic rubber, and, therefore, I wish to give you some information on the development of our research work in this field.

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We certainly were the first to prepare all the four different crystalline stereoisomers of diolefine polymers. Our scientific papers on the crystal structure of the pure stereoisomers of polybutadiene were published in "Rendiconti dell'Accademia Nazionale dei Lincei" Rome, June 1956 on the structure of the 1,4-trans polymer, November 1955 on 1,2 syndiotactic polybutadiene, May 1956 on isotactic polybutadiene, and in the "Zeitschrift für Angew.Chemie", October 1956 on 1,4 cis polybutadiene.

We know of course of the Goodrich, Phillips, I.C.I., Du Pont, Aries, etc patents on polymerization of diolefines to 1,4 polymers, most of which were filed after our first application in Italy on March 1955.

A For Aries, the structure that he attributes to 1,4 cis polybutadiene, does not seem to be correct; the structure he gives corresponds to the one that may be calculated theoretically, assuming the molecule ~~is not~~ planar; however the 1,4 cis polybutadiene molecule is not planar, and therefore the data of Aries do not correspond to the real ones, found by us.

On ethylene-propylene copolymers and on elastomers obtained from them, we filed a series of patent applications from 1954 to 1956; I am enclosing a list of the patents issued so far.

I believe that we have been doing a pretty good job in the field of stereospecific polymerization, also as regards rubberlike products, and that our patent position is rather good. I think you should take this work under consideration in your publications on this subject.

I hope to see you in Italy soon. With best regards, I am,

Sincerely yours,

Giulio Natta.

encls. your manuscript.

April 27, 1957  
Rif.n.781/r1

Mr. J.D.D'IANNI  
Assistant to Vice President  
Research and Development  
The Goodyear Tire & Rubber Co., Inc.,  
A K R O N 16 - Ohio - U.S.A.

Dear Mr. D'Ianni,

I thank you very much for sending me your paper for the Encyclopedia of Chemical Technology, which I read with great interest. As I believe that you only know part of our papers, I am sending you, under separate cover, the reprints of all my papers concerning stereospecific polymerizations. I send you also a copy of the lecture I held in London last March at the International Symposium on Synthetic Rubber, and a list of our patents already published.

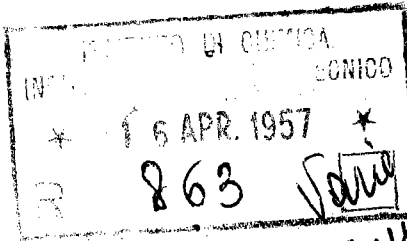
I think that you might like to report also what has been done in Italy in the field of synthetic rubber, and, therefore, I wish to give you some information on the development of our research work in this field.

I believe that we were the first to polymerize diolefines to crystalline polymers, using Ziegler type catalysts.

We certainly were the first to prepare all the four different crystalline stereoisomers of diolefine polymers. Our scientific papers on the crystal structure of the pure stereoisomers of polybutadiene were published in the "Rendiconti dell'Accademia Nazionale dei Lincei" Rome, June 1956 on the structure of the 1,4 -trans polymer, November 1955 on 1,2 syndiotactic polybutadiene, May 1956 on isotactic polybutadiene, and in the "Zeitschr. für Angew.Chemie" , October 1956 on 1,4 cis polybutadiene.

./.





*via The Goodyear*

Prof. Natta

*Goodyear office at Continental  
Hannover, Germany*

April 13th, 1957  
P/Po

Mr. Giustiniani  
Patent Development Coordinator  
Montecatini Co.  
Milano, Italy  
-----

Dear Mr. Giustiniani:

After hearing Professor Natta's very interesting paper at the International Synthetic Rubber Symposium on March 20<sup>th</sup> I had an opportunity to talk with him briefly about a possible interest our company may have in discussing with you any interest Montecatini may have in licensing the new compositions based on elastomeric alpha-olefin-diene copolymers which he described. He indicated that he thought the time when Montecatini might be willing to grant licenses may be fairly close at hand.

It develops that I am going to have to be in Milan from Thursday evening, April 18, to Saturday mid afternoon, April 20<sup>th</sup>, and I am therefore writing to find if it might be possible to schedule a short appointment with you to discuss in a preliminary way the prospects for Goodyear to enter into a licensing arrangement with Montecatini on Professor Natta's work in this field - that is, of rubbery copolymers involving comparatively small proportions of dienes with large proportions of 1-olefins. I appreciate the fact that this suggestion comes to you on very short notice and that the date of my visit in Milan coincides with the Easter weekend. However, this is about the only opportunity I know of that will present itself for face to face discussions until Dr. Lanni comes over again late this year, and I thought a preliminary discussion might prove fruitful for both of us.

If you think that it might be possible for us to get together, I would appreciate your dropping me a note c/o Hotel Kartner Hof, Vienna, where I will be from Tues. pm, April 16, to Thurs. am, April 18<sup>th</sup>. (+) In Milan, I expect to be staying at the Hotel Ambasciatori, or at an alternate that Mr. Mosca, the manager, may arrange for me.

cc. Prof. G. Natta

+ Please send a copy  
to me c/o Mr. Joseph  
Pfeiffenschneider,  
Goodyear S.A, Colmar-Berg,  
Luxembourg.

Very truly yours,

*R.M. Pearson*  
Manager Synthetic Rubber Research  
The Goodyear Tire & Rubber Co.  
Akron 16, Ohio

GOOD YEAR

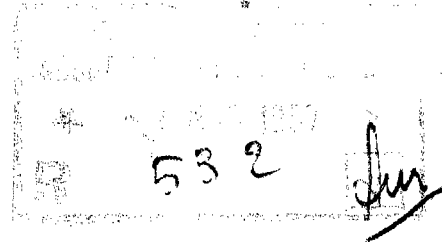
**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

RESEARCH DIVISION

February 27, 1957

Professor G Natta  
 Istituto di Chimica Industriale del  
 Politecnico de Italy di Milano  
 Piazza Leonardo Da Vinci 32  
 Milano, Italy



Dear Professor Natta:

After the International Synthetic Rubber Symposium in London in the last week of March, I plan to do some interviewing of technical personnel in your area, probably around April 18. We are looking for polymer chemists who are well grounded and interested in basic research.

If it would not be too much of an imposition, I would like very much to stop in and talk over polymer matters in general, and also to interview any English speaking 1957 Ph.D. candidates you have who might be interested in coming to the United States. Starting salaries would be of the order of \$600 per month.

I would appreciate hearing if such an arrangement would be suitable to you. My itinerary is still shaping up, and I would like to confirm a date with you either just prior to leaving (March 24) or after I arrive in London.

Very truly yours,

Manager  
 Synthetic Rubbers Research

R M Pierson  
 am

March 6, 1957

Mr. R. M. Pierson

The Goodyear Tire & Rubber Co  
Synthetic Rubber Research

A K R O N, 16 - Ohio - USA

Dear Mr. Pierson,

I received your letter of February 27, 1957. I am sorry I cannot at the present fix an appointment to meet you in Milan during April, because at the end of March and during April I have a series of engagements already assumed, and I will be abroad for a long period.

I shall come, however, to London to hear your lecture on "new family of Elastomers", and I do hope to have the opportunity to meet you in such occasion.

In regard to our graduated from Politechnic School, they are chemical engineers and not chemists. I received already many requests like yours, above all from several American Companies, but in this moment I have no chemist who is interested in coming to the United States, as the best coworkers of mine like better to dedicate themselves to the scientific career.

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

Very truly yours,

Giulio Natta

Maj 3, 1957

Mr. J. D. D'IANNI  
The Goodyear Tire & Rubber Co., Inc.  
Akron 16 Ohio

2°

data of Aries do not correspond to the real ones, found by us.

On ethylene-propylene copolymers and on elastomers obtained from them, we filed a series of patent applications from 1954 to 1956; I am enclosing a list of the patents issued so far.

I believe that we have been doing a pretty good job in the field of stereospecific polymerization, also as regards rubberlike products, and that our patent position is rather good. I think you should take this work under consideration in your publications on this subject.

I hope to see you in Italy soon. With best regards,  
I am,

Sincerely yours,

Giulio Natta

Encl.



GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

January 17, 1957

Dr Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, ITALY

135  
Giovanni Amadori

Dear Dr Natta:

It was very kind of you to take the time to visit with me on my recent trip to Milano. I was glad to hear about your work on the synthetic polybutadiene and the other polymers with which you are now working. This is a field of considerable interest to us, and any further information that you can give us from time to time will be greatly appreciated.

I hope that you will be able to return to the States this year, and, if so, please make a special effort to come to Akron, where you will indeed be most welcome. I am very sorry not to have been able to see Mrs Natta on this trip, since it was necessary for me to leave Milano in the afternoon, shortly after visiting with you.

I have recently prepared a paper on synthetic rubber which was published in the Petroleum Refiner. This is being sent to you under separate cover and may be of some interest, since it summarizes the present status of commercial development in this Country.

Best personal regards.

Sincerely yours,

*J D D'Ianni*  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

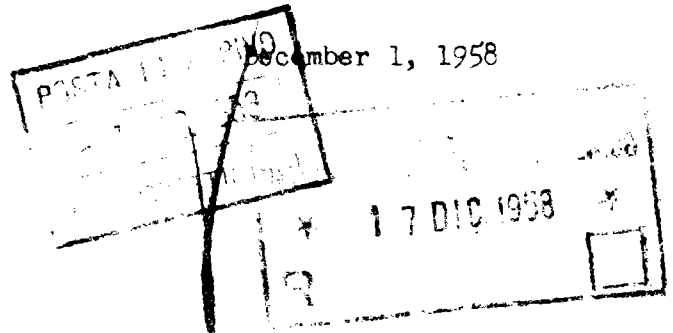
GOOD YEAR

a. p. c. Prof Natta

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

*Lucini  
Am.*



Ing. Piero Giustiniani  
MONTECATINI  
via F Turati, 18  
Milan, ITALY

Dear Dr Giustiniani:

You will recall that I visited you in Milan about a year ago and that we had subsequent correspondence concerning the possible licensing of Professor Natta's discoveries in the field of elastomeric copolymers derived from ethylene, propylene, and other olefines.

This matter is still of considerable interest to us, particularly in view of the recent announcement that your Company is planning to commercialize this development. We understand that Montecatini will build a 60,000 tons per year plant at Brindisi, Italy to make propylene-ethylene copolymer for "life-time" auto tires, due on stream about two years from now. The announcement also stated that the polymer is more durable than the styrene-butadiene copolymer now used in tire casings and will be about 10¢ per lb cheaper.

We are wondering if you have any further thoughts on the possibilities of licensing this development for commercialization in the U.S.A. Simultaneously we are writing to Dr Lucini, President of your Chemore Corporation in New York, for additional information as well as a sample for evaluation.

Best personal regards.

Sincerely yours,

Assistant to Vice President  
Research and Development

J D DiIanni  
t

AIR MAIL

30th Aug. 1962

Mr. J. D. D'Ianni  
The Goodyear Tire & Rubber Co.  
Akron 16, Ohio (USA)

Dear Mr. D'Ianni,

Excuse my delay in answering your letter of Aug. 3 - due to my Summer holidays.

I am not quite sure to be in Milan on Oct. 1 or 2, because I have planned a journey to Germany for the end of September, and still I do not know how long it will be. If, as I hope, I am in Milan, I will be very glad to meet you and Mr. Gracia. If I am absent, you will be able to meet Prof. Porri, who, among my co-workers, is the most qualified in the field of the stereoregular polymers of diolefins, or Prof. Mazzanti, specialized in the field of copolymers of olefins, or Dr. Crespi, whose field of research is the vulcanization and the study of the physical and technological properties of the new synthetic elastomers.

Hoping to meet you, I send you my best regards.

G. Natta

GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

August 3, 1962

Professor Giulio Natta  
Istituto Di Chimica Industriale  
Del Politecnico  
Piazza Leonardo da Vinci, 32  
Milan, ITALY

Dear Professor Natta:

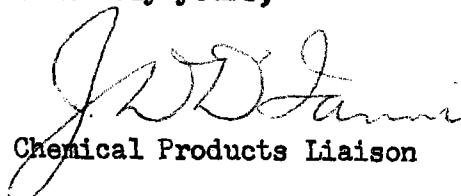
I am planning another trip to Europe this Fall, and expect to be in Milan on October 1 and 2.

It is always a great pleasure to visit you, and I hope that you will have a little time for a discussion of recent activities in the stereo polymer field.

Mr Gracia, our Director of Research and General Products Development, will accompany me and would like very much to meet you.

With best personal regards to you and Mrs Natta.

Sincerely yours,



Chemical Products Liaison

J D D'Ianni  
vtr

April 12, 1961

Dr. J. D. D'Ianni, Assistant to  
Vice President  
Research and Development  
The Goodyear-Tire & Rubber Co.  
Akron 16, Ohio (USA)

our ref. 337/lv

Dear Doctor D'Ianni:

With regards to your letter of April 6, 1961, I wish to inform you that I shall be very glad to meet you in Milan on May 22. If, by chance, I am absent from Milan on that time, some co-workers of mine will be pleased to meet you.

Thank you for the review paper on the "Newer Synthetic Rubbers" you kindly sent to me.

Best regards,

Sincerely yours,

G. Natta

GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

April 6, 1961

Professor Giulio Natta  
Istituto Di Chimica Industriale  
Del Politecnico  
Piazza Leonardo da Vinci, 32  
Milan,  
ITALY

337

Dear Professor Natta:

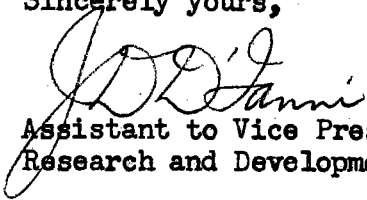
It is my plan to visit in Italy again next month, and I hope to have the opportunity of seeing you again. Will you be available for a meeting on Monday, May 22?

It is always a pleasure to see you and discuss the latest developments in high polymers and other fields of mutual interest.

Under separate cover I am sending you a review paper on the "Newer Synthetic Rubbers" which I presented at the A.C.S. meeting in St Louis. It is to be published in the next issue of Rubber Chemistry and Technology.

Best personal regards to you and Mrs Natta.

Sincerely yours,

  
Assistant to Vice President  
Research and Development

J D D'Ianni  
vtr

*rispondere al suo  
lettera del 12 aprile  
con un r. a Milano  
c. d. d. i. a. n. n.*

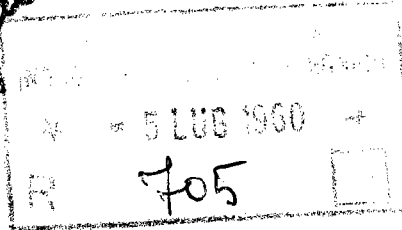
"MONTECATINI"

SOCIETÀ GENERALE PER L'INDUSTRIA MINERARIA E CHIMICA

AMMINISTRATORE DELEGATO

G/ra.

*Aiu*  
*The Podyan*



Milano, 3 luglio 1960

Caro Natta,

D'Janni ha scritto anche a me ed io, prima di rispondere sì, ho guardato la situazione brevettuale.

BREV essendo d' accordo, ho scritto a D'Janni come da copia acclusa.

Si tratta adesso di vedere chi manda il poli-butadiene : Lei, oppure il SERE o l' Istituto Donegani ?

Mi telefoni per favore.

Grazie e cordiali saluti.

un allegato

Preg.mo Signor  
Prof. GIULIO NATTA  
MILANO

A large, stylized handwritten signature in black ink, consisting of a large loop and a long horizontal stroke.

C/ra/Al

Milan, July 5, 1960

Dear Mr. d'Janni,

Many thanks for your letter of June 13th last.

It was indeed a real pleasure for me to have seen you here in Milan also because our talks place us in the position to open ever wider horizons to our joint technique.

I have given instruction to our Department concerned to let you have as soon as possible one sample of 1.4 Cis polybutadiene, while reserving instead to send you, within some time, samples of C 23.

With kind personal regards,

Yours sincerely,

(Ing. Piero Giustiniani)

Mr. D. D'JANNI  
The Goodyear Tire and Rubber Company  
A K R O N 16, Ohio.



June 27, 1960

*Am  
Goodyear*

Mr. J. D. D'Ianni, Assistant  
Vice President  
Research and Development  
The Goodyear-Tire and Rubber  
Akron 16, Ohio (USA)

our ref. 661/lv

Dear Dr. D'Ianni,

thank you for your letter of June 13<sup>th</sup>

I am sorry I am not able to answer your question about the Russian scientists, since I had to give up going to the Moscow Congress on Macromolecular Chemistry. However I know that 120 American chemists attended this Congress: among them, I mention Prof. Mark, Prof. Hohenstein - Prof. Overberger, and some others of the Polytechnic of Brooklyn, Prof. Huggins, and so on. Surely they will be able to tell you anything you desire about Russia.

With regard to your request of 99% cis-1,4 polybutadiene, I inform you that at present we have only old samples and that the best ones have been used completely in our vulcanization tests. If we prepare other samples during next weeks, I certainly will send you a small amount of this sample which will serve you as a reference point in your infrared analyses.

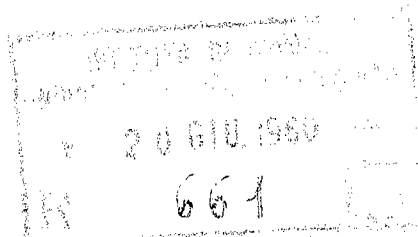
With my best regards.

G. Natta

GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO



June 15, 1960

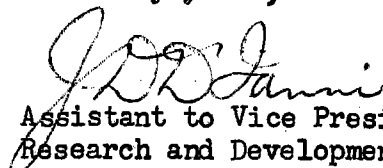
Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci 32  
Milan, Italy

Dear Professor Natta:

Our research people were very much interested when I told them that you had been able to make a 99% cis-1,4 polybutadiene. Much work is being done in our Physics Department in methods of analysis of these high cis-rubbers.

Would it be possible to obtain a small sample of this rubber to serve as a reference point in the infrared analysis which our research people are conducting?

Sincerely yours,

  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

June 13, 1960

Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, Italy

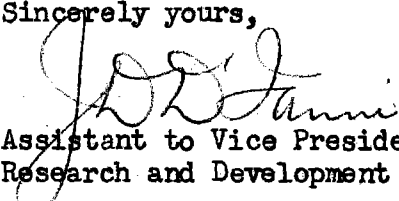
Dear Professor Natta:

As always, it is a pleasure to visit you and my only regret is that the time on this trip was so limited.

I recall that you were concerned about your prospective trip to Moscow, but I assume that you went ahead with your trip as originally planned. It would be of interest to hear from you upon your return and learn if there has been any basic change in the attitude of Russian scientists toward the Western World.

With best regards to you and Mrs Natta, I am

Sincerely yours,

  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

*Am (Goodlyner)*

May 12, 1960

our ref. 495/1v

Dr. J. D. D'Ianni,  
c/o Hotel Palace,  
Piazza della Repubblica  
Milano

Dear Doctor D'Ianni:

with regard to your letter of May 5,  
I inform you that I am glad to meet you in a near  
future.

I suggest you to call me up when you  
arrive in Milan, so that we can arrange a meeting.

With my best regards,

Sincerely yours,

G. Natta

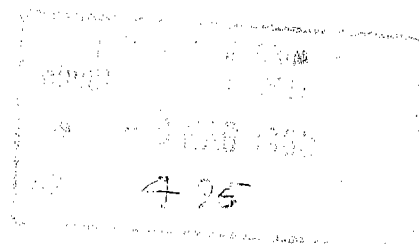
GOOD YEAR

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

May 5, 1960

Professor Giulio Natta  
 Istituto di Chimica Industriale del Politecnico  
 Piazza Leonardo da Vinci, 32  
 Milan, Italy



Dear Dr Natta:

It has been some time since we have had a chance to visit and I hope that this can be done in the near future.

My plans are to be in Milan on May 18 and 19, with headquarters at the Palace Hotel, and I hope I will have the opportunity of seeing you, if even for a short time.

Sincerely yours,

*J D D'Ianni*  
 Assistant to Vice President  
 Research and Development

J D D'Ianni  
 t

*arrivare al Palazzo du  
 telefonare quando sare a Milan  
 per prendere appuntamenti.*

January 27th 1960

*Am.*

The Goodyear Tire & Rubber Co.  
1144 East Market St.  
Akron 16, Ohio  
R.E.Cunningham  
W.M.Saltman

Attention of

Dear Sirs,

According to your request of the following reprint:  
"Conformation of Linear Chains and their Mode of Packing in the  
Crystal State, J.Pol.Sci., 39, 29 (1959)", we are sorry to in-  
form you that we have no available copies.

Best regards.

(Secretary to Prof.Natta)

*Ain.*  
*Goodyear*

4 Aprile 1959

Rif. N. 421/rl

Egr. Ing. P. Giustiniani  
Amministratore Delegato  
Società Montecatini  
S e d e

Caro Ingegnere,

ricevo la Sua lettera del 3/4 con la copia della corrispondenza con il Dr. D'ANNI, di cui La ringrazio.

Sono anch'io del parere che possa essere utile inviare dei campioni di copolimeri alla Goodyear. Ritengo però che si debbano inviare contemporaneamente, se non prima, dei campioni alla U.S. Rubber. Mi sembra che noi dobbiamo ancora una risposta alle proposte di Mr. Cake. Potremmo scrivere alla U.S. Rubber che la causa del nostro ritardo è che si è avuta una continua evoluzione del processo di produzione dei copolimeri, e che abbiamo ritardato l'invio dei campioni allo scopo di fornire dei prodotti che più si avvicinano a quella che sarà la futura produzione industriale.

Cordiali saluti.

G. Natta

**MONTECATINI**

Società Generale per l'Industria Mineraria e Chimica

AMMINISTRATORE DELEGATO

ISTITUTO DI CREDITO  
INDUSTRIALE DEL PAESE  
\* 3 APR. 1959 \* Data  
R 421

3 aprile 1959

PROMEMORIA

G/bg

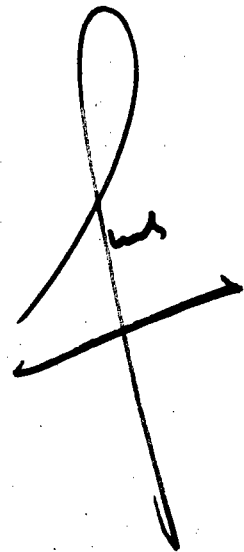
per il Signor.....

PROF. NATTA  
ING. LARCHER

Per Vostra conoscenza Vi rimetto copia  
di scambio di corrispondenza con il Sig. D'Janni, della  
Goodyear Tire & Rubber Co.

Cordiali saluti.

Allegati





G/bg/Al

Milan, April 3, 1959

Dear Mr. D'Janni,

It was also for me a pleasure to see you here and to have a pleasant talk together.

Both Prof. Natta and myself will keep in mind the considerations put forth by you with regard to the interest of your Company in the new elastomeric copolymers. I hope to be able to send you soon samples of this product.

I have communicated to Dr. Larcher what you write to me about our Vipra PL.

With best personal regards,

Yours sincerely,

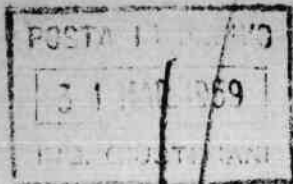
(Ing. Piero Giustini)

Mr. J. D. D'JANNI  
Assistant to Vice President  
Research and Development  
The Goodyear Tire and Rubber Co.  
AKRON 16, Ohio.

GOOD YEAR

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO



March 27, 1959

Mr P Giustiniani  
MONTICATINI  
Via F Turati, 18  
Milan, Italy

Dear Mr Giustiniani:

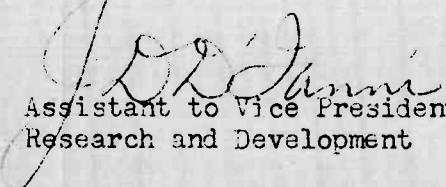
It was a pleasure to see you and Professor Natta again during my recent trip to Italy. I enjoyed our discussion of your new developments in the fields of synthetic rubber and plastics and hope that you will keep in mind our continuing interest in your developments, especially of the ethylene-propylene copolymers.

We are particularly interested in obtaining samples of any new rubber-like polymers your Company may develop and we would also like to be considered when you are ready to discuss licensing arrangements in this field.

Following our discussion, I met with Mr Larcher and his staff to discuss PVC plastisol resins. Your people were kind enough to send us a sample of your new Vipla PL, which we are now in the process of evaluating. Should this look interesting to us, we will want to discuss the possible licensing by Goodyear of your know-how in this field.

With best regards.

Sincerely yours,

  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

GOOD YEAR

FACTORY  
COLMAR BERG  
55-21  
TELEPHONE 55-40  
55-45  
CABLES "GOODYEAR"

Goodyear S.A.

LUXEMBOURG

POSTA  
2  
INC. C

IN REPLY PLEASE REFER TO

To the Sales Director  
of Montecatini,  
Via F. Turati 18,  
Milan,  
Italy.

Colmar-Berg, January 26, 1959.

ESIDD N° 41E

cc: Dr. Dinsmore - Akron  
C R Case - Akron  
C P Wurth - Colmar

Subject : The New Propylene-Ethylene Copolymer.

Dear Sir :

This Organization is aware that the Montecatini Organization has publicly announced its development of the subject copolymer.

We are most interested in these developments and would greatly appreciate any comments or information you would care to present to us. In this respect, we are particularly interested in your latest thinking regarding future production plans and any evaluations you have made on your own behalf or possibly in conjunction with any Tire Manufacturing Organizations.

We would be most grateful for the receipt of any such information in the hope that it would lead to a possible future evaluation effort on a cooperative basis with your Organization.

The Goodyear Co. has recently provided considerable testing facilities for tire development work in both laboratory and on the road fields. These facilities would be pressed into service to provide ourselves and your Organization with specific and positive results in this European area.

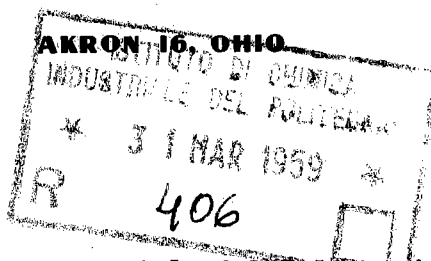
We thank you for any efforts you may make in response to this inquiry.

Yours very truly,



H E Schroeder,  
Mgr European Section,  
International Development Dept.  
Goodyear SA.

GOOD YEAR

*Aens*  
**The Goodyear Tire & Rubber Company**

March 27, 1959

Professor G Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milan, Italy

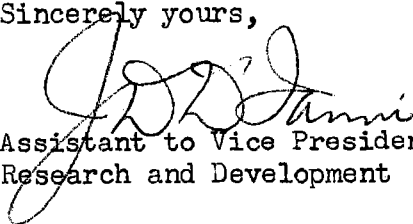
Dear Professor Natta:

It was a pleasure to see you again in Milan on my recent trip to Europe and I enjoyed very much talking with you and Mr Giustiniani about recent developments in the fields of synthetic rubber and plastics. They are areas of great interest to my Company and I should like to keep in touch with you as further developments are made.

Thank you for your many courtesies and I hope to have the opportunity of seeing you in the near future.


Best personal regards.

Sincerely yours,



Assistant to Vice President  
Research and Development

J D D'Ianni  
t

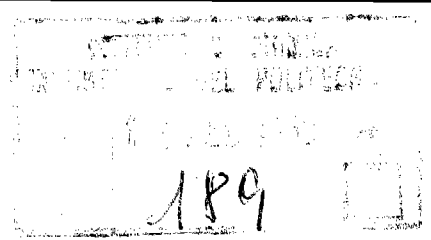


"MONTECATINI"  
SOCIETÀ GENERALE PER L'INDUSTRIA MINERARIA E CHIMICA

AMMINISTRATORE DELEGATO

G/sb

*Am.  
Goodyear*



Milano, 10 febbraio 1959

Caro Natta,

forse non sarà inopportuno che anch'Ella sia qui alle ore 9 di martedì 17 febbraio, per assistere al colloquio che io avrò con il Sig. D'Janni con la Goodyear, come da unita copia di lettera, che invierò il 16 mattina alla persona.

Cordiali saluti.

Allegato

Preg.mo Signor  
Prof. GIULIO NATTA  
MILANO.

A large, stylized handwritten signature, likely belonging to the sender of the letter.

*su 17 del 17  
finito*

G/sb/Al

Milan, February 16, 1959

Dear Mr. D'Janai,

With reference to my cable addressed to you to Akron, I wish to confirm to you hereby that I shall be very glad to see you to-morrow morning, Tuesday February 17th, at 9 hours a.m.

With my best personal regards,

(Ing. Piero Giustiniani)

Mr. J. D. D'IANNI  
Palace Hotel  
MILAN

February 10, 1959

Am

Mr. D'Janni  
Assistant to Vice President  
Research and Development  
The Goodyear Tire &  
Rubber Co.,  
Akron 16, Ohio

171/mb

Dictated by Prof. Natta ~~on~~ 9th and written in his absence.

Dear Mr. D'Janni,

I am most pleased to learn by your letter of February 3 that you have scheduled to make a trip to Europe within short time.

I am expected to be out Milan until the 15th and to come back to the Institute on 16th.

Therefore, I will meet you on that date with great pleasure or afterwards.

My best regards,

Cordially yours,

Prof. G. Natta

GOOD YEAR

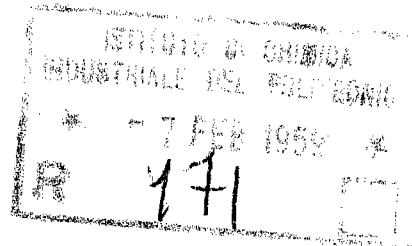
VIA AIR MAIL

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

February 3, 1959

Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milan, Italy



Dear Professor Natta:

I had hoped to see you in this country last week, since you were scheduled to speak at a meeting of the Society of Plastics Engineers, and am sorry that you were not able to attend the meeting.

It is my plan to make a trip to Europe in the near future and I expect to be in Milan around February 16 and 17. It would be a great pleasure if I could visit with you during this period.

We are very much interested in the ethylene-propylene synthetic rubbers and are planning to do some work in this area ourselves.

I plan to stay at the Palace Hotel and will call you for an appointment after my arrival.

Best personal regards.

Sincerely yours,

*J. D. D'Ianni*  
Assistant to Vice President  
Research and Development

J D D'Ianni  
t

*Giulio Natta*

*16-17*

*me*



**MONTECATINI**

Società Generale per l'Industria Mineraria e Chimica

AMMINISTRATORE DELEGATO

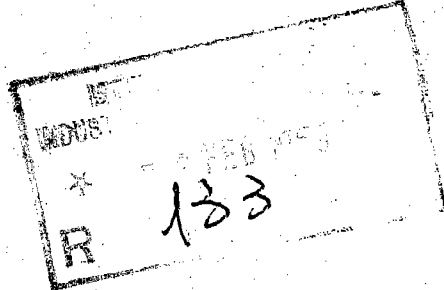
Data 30 gennaio 1959

**PROMEMORIA**

G/re

per il Signor Am. Goodyear

SEPS  
BREV  
SEID  
Prof. NATTA



**Per Vostra conoscenza  
Vi rimette copia dello scambio di corrispondenza intercorso con  
il Signor Schroeder della Goodyear.**

**Cordiali saluti.**

due allegati

*[Handwritten signature]*

copia p. c. PROF. NATTA

C/ra/AI

Milan, January 30, 1959

Dear Sir,

We received your letter of January 26th.

Production of copolymers is being studied at our Research Laboratories and, consequently, results are still characterized by a certain secrecy which, in such cases, always accompanies the research activity.

We note that Goodyear is interested in knowing what is being actuated at our Laboratories. As soon as possible, and within the limits allowed by the patent situation and by other aspects, we shall not fail in letting you know something in this respect.

We are well aware of the organization and preparation of your Company and a relationship with you will be only too appreciated.

With kind regards;

Yours sincerely,

(Sig. Piero Giustiniani)

Mr. H. E. SCHROEDER  
Mgr. European Section  
International Development Dept.  
Goodyear S. A.  
COLMAR-BERG, Luxembourg.

Oct. 2, 1964

*Acc*

Miss Winifred Masson,  
Assistant Research Librarian  
The Goodyear Tire & Rubber Co.  
Research Division,  
Akron 16, Ohio (U.S.A.)

our ref.695/lv

Dear Miss Masson:

With regard to your request, dated Sept. 15, 1964, of the paper "Polymerization of 1,3-Pentadiene to Cis-1,4 Stereoisomers", by myself and L. Porri, I regret informing you that no paper exists until now. Only a detailed summary of it is available, published in "Polymer Preprints", 148th Meeting ACS, Chicago, Sept. 1964.

Sincerely yours,

Giulio Natta

**GOODYEAR**

**The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

RESEARCH DIVISION

September 15, 1964

695  
 Dr. G Natta  
 Istituto Chimica Industriale del Politecnico  
 Milan, Italy

Dear Dr Natta:

I will very much appreciate receiving a copy of the following paper which you presented at the Rubber Division Meeting in Chicago, September 2, 1964:

#3 Polymerization of 1,3-Pentadiene to  
 cis-1,4 Stereoisomers. G Natta and  
 L Porri

Thank you very much for sending the paper, so that we can have complete holdings of all papers presented at the Chicago Meetings in our Research Library.

Sincerely,

*Winifred Masson*  
 (Miss) Winifred Masson  
 Assistant Research Librarian

WM:mmw

No paper exists <sup>now</sup> *esiste* also il sunto intero pubblicato  
 su "Polymer Preprints" <sup>148</sup> Meeting ACS, Chicago Sept 64

0-110  
4870-10 (12-62)

Air Mail

*Handwritten signature*

**GOODYEAR**

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

RESEARCH DIVISION  
142 GOODYEAR BLVD.

March 6, 1964

Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, Italy

12 MAR 1964  
189

Dear Professor Natta:

I was very pleased to receive recently a copy of the paper entitled "Copolimeri etilene-propilene insaturi contenenti monomeri derivati dal butadiene" prepared by you and your associates at the Institute and Montecatini.

Since this subject of ethylene propylene terpolymers is of increasing interest worldwide we appreciate very much receiving an advance copy of this paper which I assume will be published in the near future.

We are also glad to know that Professor Porri will be participating in the Fall meeting of the American Chemical Society in Chicago and hope that he will be able to visit us in Akron.

With kindest regards.

Sincerely yours,

*J. D. D'Ianni*  
Associate Director of Research

J D D'Ianni  
cv

*Cresb*

*Porri*

March 6, 1964

Professor Lido Porri  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, Italy

Dear Professor Porri:


We are very pleased to learn from Professor Murray Goodman that you will be participating in the Symposium on New Aspects of Elastomer Stereospecific Polymerization at the American Chemical Society Meeting in Chicago in September 1964. This Symposium is being sponsored jointly by the Polymer and Rubber Divisions of the American Chemical Society.

During your visit to the United States we invite you to spend a day with our scientists in the Research Division. I am sure the time could be well spent with discussions on subjects of mutual interest. A portion of the day could be reserved for a lecture describing some of your recent work in the field of stereopolymerization. It is customary to offer an honorarium of \$150 for such a visit.

Although it is still early for finalizing your schedule we should like to hear from you in the near future and would suggest your visiting us some time during the week following the Chicago meeting. If we can help with hotel reservations or other arrangements, please let me know.

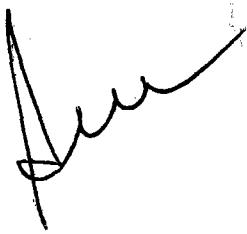
With kindest regards.

Sincerely yours,

  
Associate Director of Research

J D Ianni  
cc

CC: Prof. G. Monta  
Dr B L Johnson  
Prof. M Goodman  
Mr G N Vacca



July 7, 1965

our ref. 414/eg

Prof. D. DiIanni  
Assistant Director of Research  
Division  
The Goodyear Tire & Rubber Co.  
142 Goodyear Blvd.  
Akron 16, Ohio (USA)

Dear Doctor D'Ianni:

I mostly regret I could not meet you on your visit to Milan; however, I do hope that another opportunity will arise in the near future to meet you.

My co-workers, Prof. Dall'Asta and Prof. Sartori have told me your desire to send one of your chemists to develop scientific research at my Institute. I would mostly appreciate your letting me know the research developed so far by your chemist and his major fields of interest. If he has got some publications, please send them to me. These information will enable us to make a better choice of his research program. I would also like that his stay here covers 10-12 months at least; thus a research work will possibly be completed and published with the cooperation of that co-worker of mine who will direct the research of your chemist.

Kindest personal regards.

G. Natta

May 6, 1965

*Am -*

Dr. J. D. D'Ianni,  
Assistant Director of Research  
Research Division,  
The Goodyear Tire & Rubber Co.  
142 Goodyear Blvd.,  
Akron 16, Ohio (U.S.A.)

our ref. 267/lv

Dear Doctor D'Ianni:

This is in reply to your letter of April 27.  
I am glad that another opportunity arises for you to visit us  
again. The date of Wednesday, June 16 you suggested seems quite  
convenient for your visit here.

With kindest regards.

Giulio Natta



**GOOD YEAR**

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

RESEARCH DIVISION  
142 GOODYEAR BLVD.

April 27, 1965

267

Professor Giulio Natta  
Istituto di Chimica Industriale del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, Italy

Dear Professor Natta:

I am planning another trip to Europe this summer and hope to have the opportunity of seeing you again.

As you may have observed from the program, I shall be participating in the Rubber Conference at Munich sponsored by DKG June 9-11, following which I will spend some time in Italy.

It would be a great pleasure if I could visit you in Milan on the morning of Wednesday, June 16.

Please let me know if this date is convenient for you.

With kindest regards.

Sincerely yours,

  
Assistant Director of Research

J D D'Ianni  
cv

Sept.27, 1965

*Am*

our ref.517/lv

Dr.J.D.D'Ianni, Asstn.Director  
Research Division,  
The Goodyear Tire & Rubber Co.,  
142 Goodyear Blvd.  
Akron 16, Ohio (U.S.A.)

Dear doctor D'Ianni:

Thank you for your letter of Sept.16, concerning  
the residence of Dr.Hanlon at my Institute.

With regard to the financial arrangements you  
speak of in your previous letters, my Institute usually does  
not charge any laboratory fee the fellowship holders who  
spend a research period with us, and develop scientific work.

We agree with the date you have suggested for  
his arrival in Milan, i.e. about the middle of October.

Kindest personal regards,

Giulio Natta

**GOOD YEAR**

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

RESEARCH DIVISION  
142 GOODYEAR BLVD.

September 16, 1965

*data up  
a P  
21/9/65*

Professor G Natta  
Istituto di Chimica Industriale  
del Politecnico  
Piazza Leonardo da Vinci, 32 - Milano  
ITALY

517

Dear Professor Natta:

Thank you for your letter of August 27 clarifying the situation regarding the residence of Dr Hanlon at your Institute for the coming year.

We are in agreement with your belief that patentable inventions are not likely to be involved in work of the type you have described. If the policy of the Institute is that inventions made in your laboratories are the property of the Institute, then we agree that this policy applies to Dr Hanlon and his work in your laboratories during the coming year.

Concerning the financial arrangements, we are of course prepared to pay for all of Dr Hanlon's expenses while he is spending this period with you and your associates. My question concerned the laboratory fees or tuition, if any, which the Institute would charge Dr Hanlon during this period and which he would pay as required.

*in ante*

If it is agreeable with you, we are ready to proceed with granting Dr Hanlon a leave for a period of about one year, and suggest that he come to Milan about the middle of October.

Please let us know if this is satisfactory with you, or suggest an alternate date if you prefer.

We greatly appreciate your cooperation with us on this matter and know that Dr Hanlon will gain much from the stimulating associations with you and your students.

With kindest regards.

Sincerely yours,

*J D D'Ianni*  
Assistant Director of Research

J D D'Ianni  
cv

*Am*

August 27, 1965

Dr. J. D. D'Janni  
Good Year  
The Goodyear Tire & Rubber Co.  
Research Division  
142 Goodyear BLVD.  
Akron 16, Ohio (USA)

our ref.477, 477h, 488/eg

Dear Doctor D'Janni:

Thank you for your letters of August 6, 16 and 19 concerning the stay of Dr. Hanlon at my Institute for a research period. With regard to the question about the possible patents of Dr. Hanlon, I think that they must be considered a property of the Institute, since Dr. Hanlon will work on a topic of our choice. His research, on the other hand, will probably concern the kinetics of the polymerization, and, in my opinion, a research of this type can hardly yield results of great importance from the patent standpoint.

The possibility, mentioned in your letter, that Dr. Hanlon will get confidential information from us and vice-versa, is not a serious problem for us.

Dr. Hanlon's reliability will be the best guarantee for Goodyear. On our side, we have not particular secrets to guard.

I do not understand your hint to the financial arrangements concerning Dr. Hanlon. My Institute cannot supply any economic assistance to Dr. Hanlon, who will have to obtain either a fellowship or financial support from Goodyear.

Accept my kindest regards.

G. Natta

**GOODYEAR**

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

RESEARCH DIVISION  
142 GOODYEAR BLVD.

AIR MAIL

August 19, 1965

Professor G Natta  
Istituto di Chimica Industriale  
del Politecnico  
Piazza Leonardo da Vinci, 32 - Milano  
ITALY

488

Dear Professor Natta:


In our further consideration of sending one of our research chemists to work in your laboratories, the question of inventions and patent rights arises which should be settled before the arrangements are consummated.

For example, if our chemist should make a discovery of a patentable nature during the period while working in your laboratories, to whom would the invention belong? What is the policy of the Institute concerning inventions, and what are the Italian laws concerning the inventor's rights to his invention?

A related matter is that of confidential information. We would expect that our chemist would not supply confidential Goodyear information to you and your associates, and conversely, we would expect that you and your associates would ensure that our chemist would not be provided with information which would be considered confidential because of arrangements or agreements you have made with other parties.

Your comments on these questions will be greatly appreciated.

Sincerely yours,

  
Assistant Director of Research

J D D'Ianni  
clw

**GOODYEAR**

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

RESEARCH DIVISION  
142 GOODYEAR BLVD.

AIR MAIL

August 16, 1965

Professor G Natta  
Istituto di Chimica Industriale  
del Politecnico  
Piazza Leonardo da Vinci, 32 - Milano  
ITALY

477 b

Dear Professor Natta:

College training: U.S. ...  
As I indicated in my letter of August 6, we are giving serious consideration to your kind invitation to have one of our research people spend approximately one year in your laboratories working on a research problem in cooperation with one of your students.

Subject to final company approval, we have selected Dr Thomas L Hanlon, senior research chemist in Mr Pierson's Synthetic Rubber Research Department, as our candidate for your consideration.

Attached is a biographical sketch of Dr Hanlon, as well as copies of two papers reporting his research work. One describes his Ph.D. thesis work with Prof Tobolsky, and the other describes some research work at Goodyear on stereospecific catalysts for isoprene polymerization.

We recommend Dr Hanlon very highly for this assignment and hope you will agree with our selection. He could be available the first or second week of October to begin research work at your Institute.

We shall be pleased to hear from you soon on this matter, as well as to receive information about the financial arrangements that might be necessary.

Sincerely yours,

*J D D'Ianni*  
Assistant Director of Research

J D D'Ianni  
clw

att

Biographical Information

Thomas L. Hanlon

Age: 28 (Married - one child aged 2 years).

College Training: B.S. Randolph-Macon College, Ashland, Virginia 1959

Ph.D. Princeton University 1963

Research Experience: My thesis work for the Ph.D. was done under Professor Arthur V Tobolsky and was mainly concerned with the subject of ionic copolymerization. Much of the work is discussed in the enclosed paper.

Since employment at Goodyear, my work has involved diene polymerization with emphasis on mechanisms and kinetics of the heterogeneous polymerization. The enclosed paper describes some of the work.

**GOOD YEAR**

# The Goodyear Tire & Rubber Company

AKRON 16, OHIO

RESEARCH DIVISION  
142 GOODYEAR BLVD.

AIR MAIL

August 6, 1965

Professor G Natta  
Istituto di Chimica Industriale  
del Politecnico  
Piazza Leonardo da Vinci, 32 - Milano  
ITALY

472

Dear Professor Natta:

I was very pleased to receive your letter of July 7 indicating your willingness to have one of our senior research chemists spend a year in your laboratories working on a research problem with you and your associates.

This question of our sending an outstanding member of our staff on a sabbatical leave to a European research laboratory such as yours is now being considered by the company, without a firm decision as yet being reached.


It would please me greatly if arrangements could be made for one of our scientists to spend a year in your laboratories, since it could lead to mutual benefits and closer relations in the future.

In our future consideration of this possibility, one of the questions that arises is of the financial arrangements that would be required. We would appreciate your thoughts on how these might be handled.

I also was sorry not to see you in Milan, but appreciated your consideration in making arrangements for me to talk to Prof Dall'Asta and Prof Sartori.

With kindest personal regards,

Sincerely yours,

  
Assistant Director of Research

J D D'Ianni  
clw



Sept. 19, 1966

*Am.*

Dr. J.D. D'Ianni,  
Director of Research,  
The Goodyear Tire & Rubber Co.  
Research Division,  
142 Goodyear Blvd.  
Akron, Ohio 44316 (U.S.A.)

our ref.466/lmv

Dear doctor D'Ianni:

This is in reply to your kind letter of Sept.9.  
I confirm you that I shall be very glad to meet Dr. Widmer  
in Milan.

I hope not to be compelled to go to Rome just  
on those days, but anyhow, in case I am absent, Dr. Widmer  
may meet some co-workers of mine.

With kind regards,

Giulio Natta

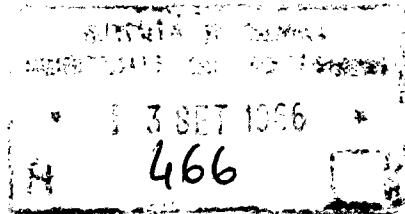
# The Goodyear Tire & Rubber Company

AKRON, OHIO 44316

RESEARCH DIVISION  
142 GOODYEAR BLVD.

September 9, 1966

Prof Dr Giulio Natta  
Istituto di Chimica Industriale  
del Politecnico  
Piazza Leonardo da Vinci, 32  
Milan, ITALY



Dear Professor Natta:

This letter will introduce to you Dr Hans Widmer of our Research Division.

Next month Dr Widmer will be taking up residence in Brussels as a representative of the Goodyear Research Division in Europe.

His primary function will be to contact universities and research institutes, as well as to attend scientific conferences to familiarize himself with research activities in European countries.

He is very anxious to have the opportunity of meeting you and plans to be in Milan October 10 to 14, with the expectation of meeting with you and your colleagues on either October 11 or 12

We would be very pleased if you could meet Dr Widmer and that he also have the opportunity of meeting some of your colleagues, such as Drs Porri, Crespi, Danusso, and Valvassori.

With kindest regards to you and Mrs Natta.

Sincerely yours,

*J D D'Ianni*  
Director of Research

J D D'Ianni  
AO - airmail

Oct. 11, 1965

*Am*

Dr. Hanlon,  
The Goodyear Tire & Rubber Co.,  
Research Division,  
142 Goodyear Blvd.,  
Akron 16, Ohio (U.S.A.)

Dear Doctor Hanlon,

Dr. D'Ianni informed us that you are planning to arrive in Milan on Oct. 18 and that we should find suitable housing for you, your wife and child. On this regard, we would mostly appreciate learning your wishes.

You should know, however, that we may meet some difficulties in finding a small apartment for you. The situation of lodgings in Milan may be compared with that of some other great cities. Therefore, if we do not find an apartment for you at once, we might possibly register you in a hotel for a few days. Do you prefer one double-bedded room with a small bed for your child or one separate room for your child? Even if we find an apartment for you we would prefer to wait until your arrival to fix it definitely, since it must be convenient to you.

Please, let us know at your earliest convenience whether you agree with what stated above.

Moreover, we do not know the exact time of your arrival in Milan. Therefore, as soon as you arrive in Milan, ring me up (Tel. No. 292125) and I will tell you the name and address of your hotel.

Kind regards,

Luisa Vaccaroni  
Prof. Natta's secretariat

**GOOD YEAR****The Goodyear Tire & Rubber Company**

AKRON 16, OHIO

RESEARCH DIVISION  
142 GOODYEAR BLVD.

October 6, 1965

Professor G Natta  
Istituto di Chimica Industriale  
del Politecnico  
Piazza Leonardo da Vinci, 32  
Milano, Italy

Dear Professor Natta:

Thank you for your letter of September 27 confirming the arrangements previously discussed for Dr Hanlon's residence at your Institute during the coming year.

Dr Hanlon has been preparing himself for this visit and is planning to arrive in Milan with his wife and child on October 18.

I am sure he would appreciate it if members of your staff could assist him with finding suitable housing during this period.

We appreciate your interest and cooperation on this matter very much.

Sincerely yours,

*J. D. D'Ianni*  
Assistant Director of Research

J D D'Ianni  
cv