

Alfred Bader Fonds

Correspondence

Sussex, Univ. of
1995-1999

QUEEN'S UNIVERSITY ARCHIVES	
LOCATOR	5095.5
BOX	6
FILE	14

Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

A Chemist Helping Chemists

August 29, 1995

Dr. Roger Taylor
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Dr. Taylor:

In response to your letter of August 14th, I could not be with you on October 30th, but could on the morning of December 4th. I could come to Falmer from Bexhill, arriving around 10:00 am, speaking at 11:00, and then catching a fast train from Brighton to London to be there mid-afternoon.

I think the talk of greatest interest would be on Richard Anschütz discovering the work of Archibald Scott Couper and Josef Loschmidt. As a title, I would like to suggest "*Archibald Scott Couper and Josef Loschmidt: Out of the Shadow*". For the talk, I would need an overhead projector to show transparencies.

With all good wishes, I remain,

Yours sincerely,

AB/cw

cc: Dr. David Walton



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

Dr Alfred R Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211
USA

14 August 1995

Dear Dr Bader

I am currently organising our Monday Chemistry Colloquium Programme for the coming year. I understand that you will be coming to Sussex in the Autumn and wondered if you would be able and willing to give a talk. I well remember the one that you gave in Toronto at the International Isotopes Society and how enjoyable that was.

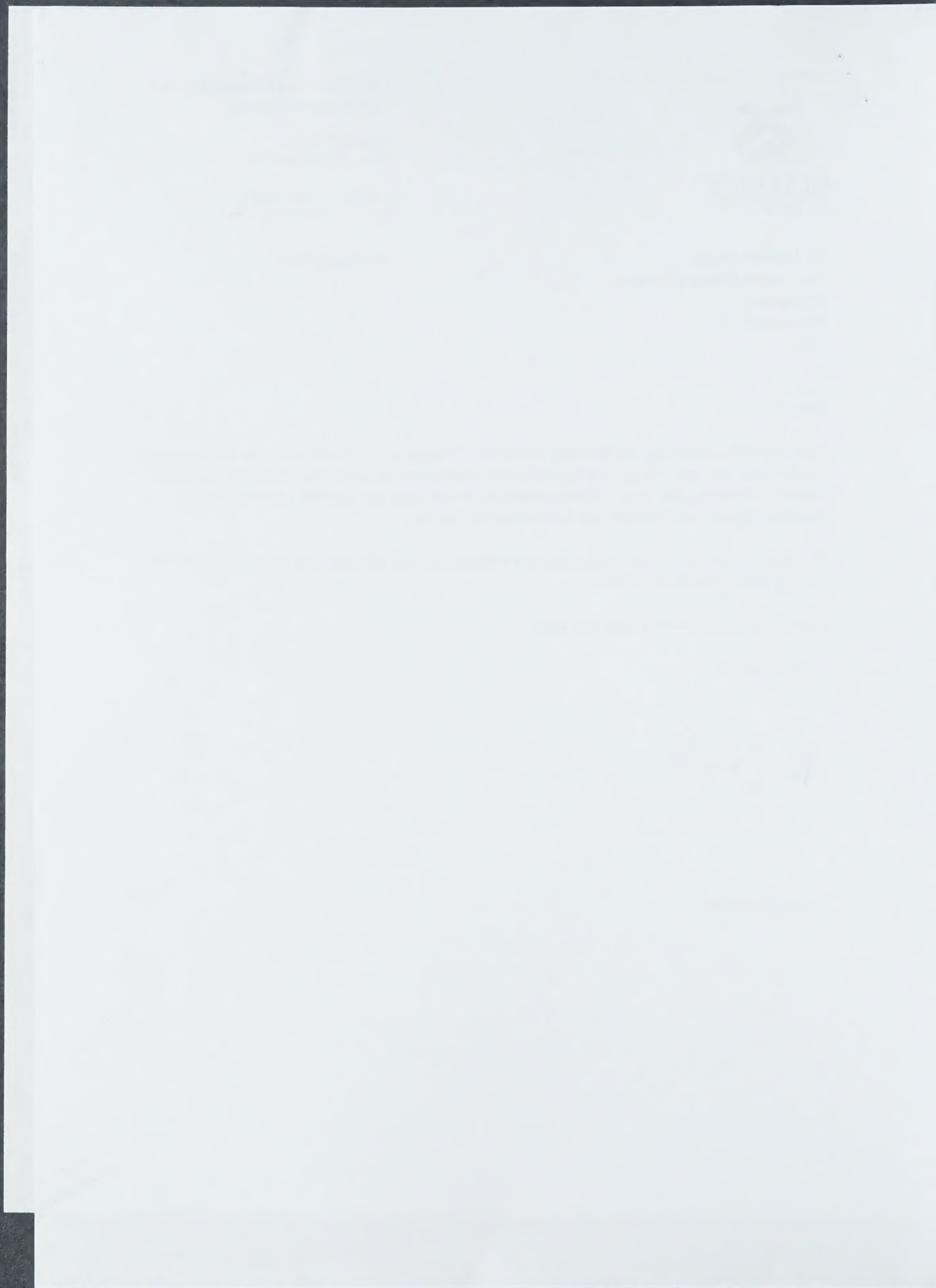
If you are able to speak here, dates that are available around the time that you may be here are 30th October and 4th December.

I look forward to hearing from you soon.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'R. Taylor'.

Dr Roger Taylor



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

Dr Alfred Bader
52 Wickham Avenue
Bexhill-on-sea

21 July 1995

Dear Alfred

Thank you very much indeed for your gift of the two books. I deeply appreciate what you have said about the University of Sussex in your autobiography and for your handwritten comments therein. Until now, I was unaware that you were briefly in Essex before the move to Hove. I was born in Westcliff-on-sea (1936) and, apart from 1940-44 when we were evacuated to Cambridge, lived there until 1963. The Waltons often visited Dovercourt before during and after the war, because of my father's newspaper work on behalf of the now defunct 'News Chronicle'. Small world!

Harry Kroto returns at the weekend and I will appraise him of your very generous offer, should nothing transpire with either the Royal Society of Chemistry or from Prof Gregory. We will let you know immediately should we hear from either of these two contacts. Again we are most grateful for the representations you have made in support of the Fullerene program.

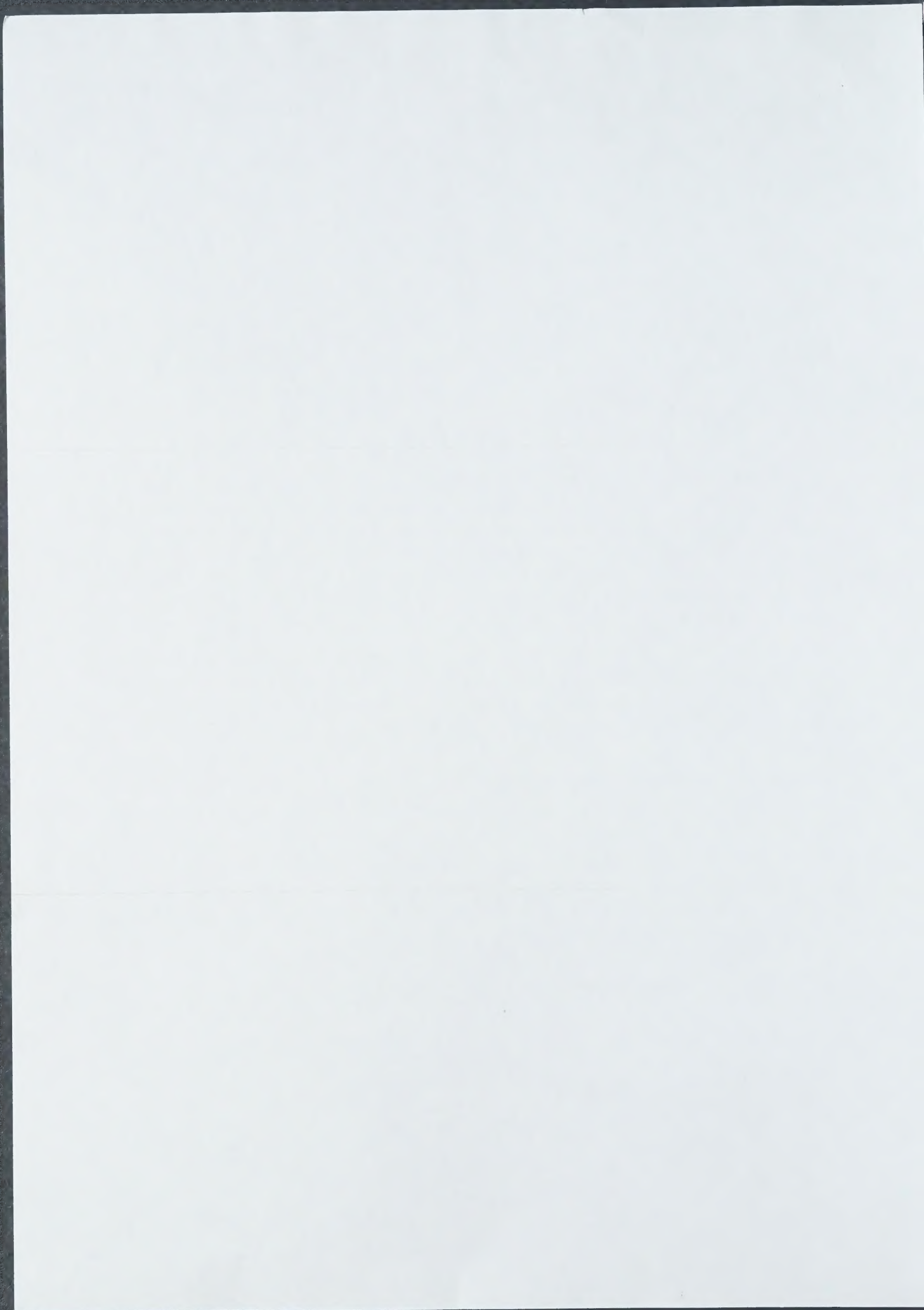
As regards the remainder of the Alan Johnson collection, I suspect we may have to contact Frank McCapra. This should not be too difficult as he still lives locally. Jim Hanson is looking into the matter.

Last but not least it was a pleasure to talk with you again on Wednesday. Good luck with your move within Bexhill and with your future purchases, *viz a viz* export regulations. Please let me know the dates when you will next be in the UK, as soon as possible, so that we can arrange for your lecture.

With very best regards, etc. etc. D. Waller

Sincerely yours

David Waller



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

Dr Alfred Bader,
2961 N. Shepard Avenue,
Milwaukee
WISCONSIN 53211
U.S.A.

9th January, 1995

Dear Alfred,

When you visited us in December you said that you were going to receive an ACS award and in your acceptance speech you wanted to address the problem of why young people are not entering chemistry. You asked me if I had any contributions to this discussion. Here are some thoughts which might interest you.

Firstly with our emphasis on safety we have ended up teaching students to fear chemicals rather than respect them. If you fear water you will never swim, if you respect water you should not drown. It is much more difficult for a teacher to inspire respect than to instil fear. Secondly many of the examples of chemistry in everyday life that are taught in school concern environmental issues - for example nitrates seen not just as beneficial fertilizers but also as pollutants of our water supplies. This engenders a critical response to chemistry. Indeed we have almost replaced in some of our teaching in schools, the positive, forward looking spirit of enquiry by a negative, critical view of chemistry. Thirdly successful experimentation is built on chemical confidence, technical dexterity, careful observation and thorough planning. Many of the constructional hobbies, development of photographs, home laboratories, etc, which have provided the foundation for these skills are no longer popular among young people. They are replaced by computer games in which success depends on the player's response to chance or random, unpredictable events - the antithesis of well-planned experiment. Fourthly there is a basic quantitative chemical logic which when well-explained and illustrated by student experiment, has a simple appealing elegance to it but only to those who appreciate the significance of number. The appreciation of number, three-dimensional structure and symmetry comes from measurement and model building - not from mathematical games with calculators - witness the understanding of the molecular architecture of C_{60} . However many young people are extraordinarily weak on simple arithmetic. Fifthly I have helped with a number of school chemistry quizzes and I have been very disappointed by the poor chemical general knowledge of the contestants. Partly this is due to the difficulty in buying simple chemicals, as such, 'over the counter' rather than as components of proprietary preparations. It is interesting to note that chemistry figured in the fictional stories of authors such as Conan-Doyle to an extent which few modern authors would dare use and expect their audience to comprehend. Today almost any chemistry in a novel or reported in the newspapers, apart from that written by a few scientific authors, is either wrong or misleading. In this context the genre of science fiction does chemistry a lot of harm particularly as it is often portrayed as the origin of something evil rather than good. Finally the chemist does not have the same recognition of his role in society as is given for example to the doctor or even to the lawyer or politician. However the contribution

Faint header text, possibly including a date or reference number.

1000

1000

1000

Main body of faint, illegible text, appearing to be a letter or document.

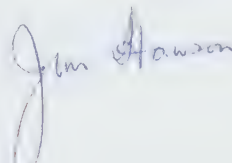
of the chemist can be as great. The role model of the chemist does not appeal in the way that it should to young people to encourage them to take up the subject. Chemistry is hard work and many young people fail to understand that there is pleasure and reward in hard work.

Whilst it is possible to find this long, certainly incomplete and rather depressing list of reasons why young people are turned away from chemistry, it is more difficult to change the attitudes. As a student I was certainly encouraged by a spirit of enquiry, by the realization that chemical principles could be seen around me and by an optimism that chemistry had something to offer society in medicine, agriculture and in improving the quality of life. If rather than attributing blame, we could say to students that a pollutant is a chemical in the wrong place and it requires a good chemist to get it to the right place, we might put some environmental issues in perspective. Perhaps when we teach synthesis, we should also teach degradation.

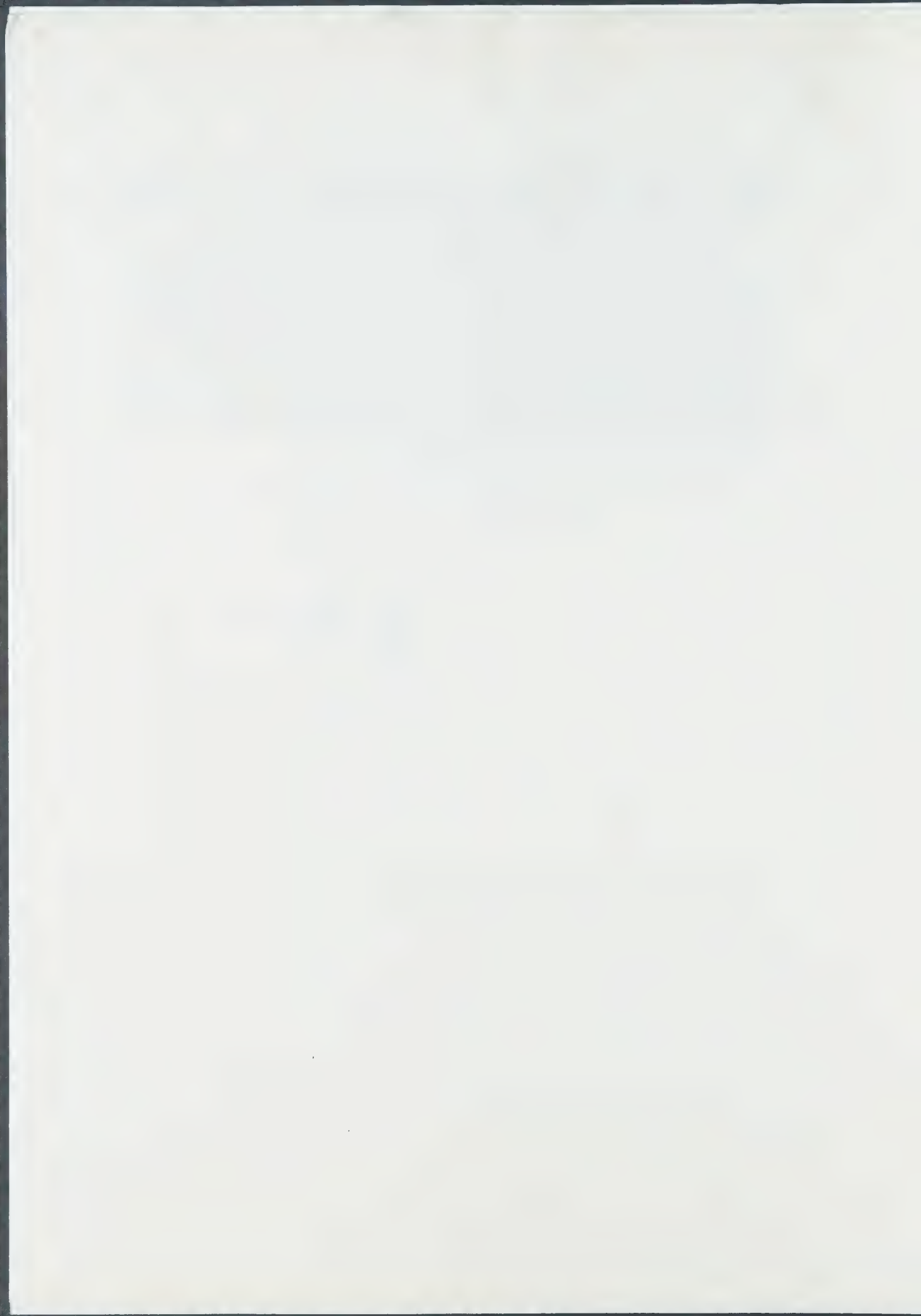
I hope that these thoughts are some help to you.

My best wishes for the New Year,

Yours sincerely,

A handwritten signature in blue ink that reads "John R. Hanson". The signature is written in a cursive style with a large, looping initial "J".

Dr. J. R. Hanson





FAX FROM:

Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

October 31, 1995

TO: Dr. Robin Street
Development Officer
University of Sussex
FAX: 44-1273-678-335

Dear Dr. Street:

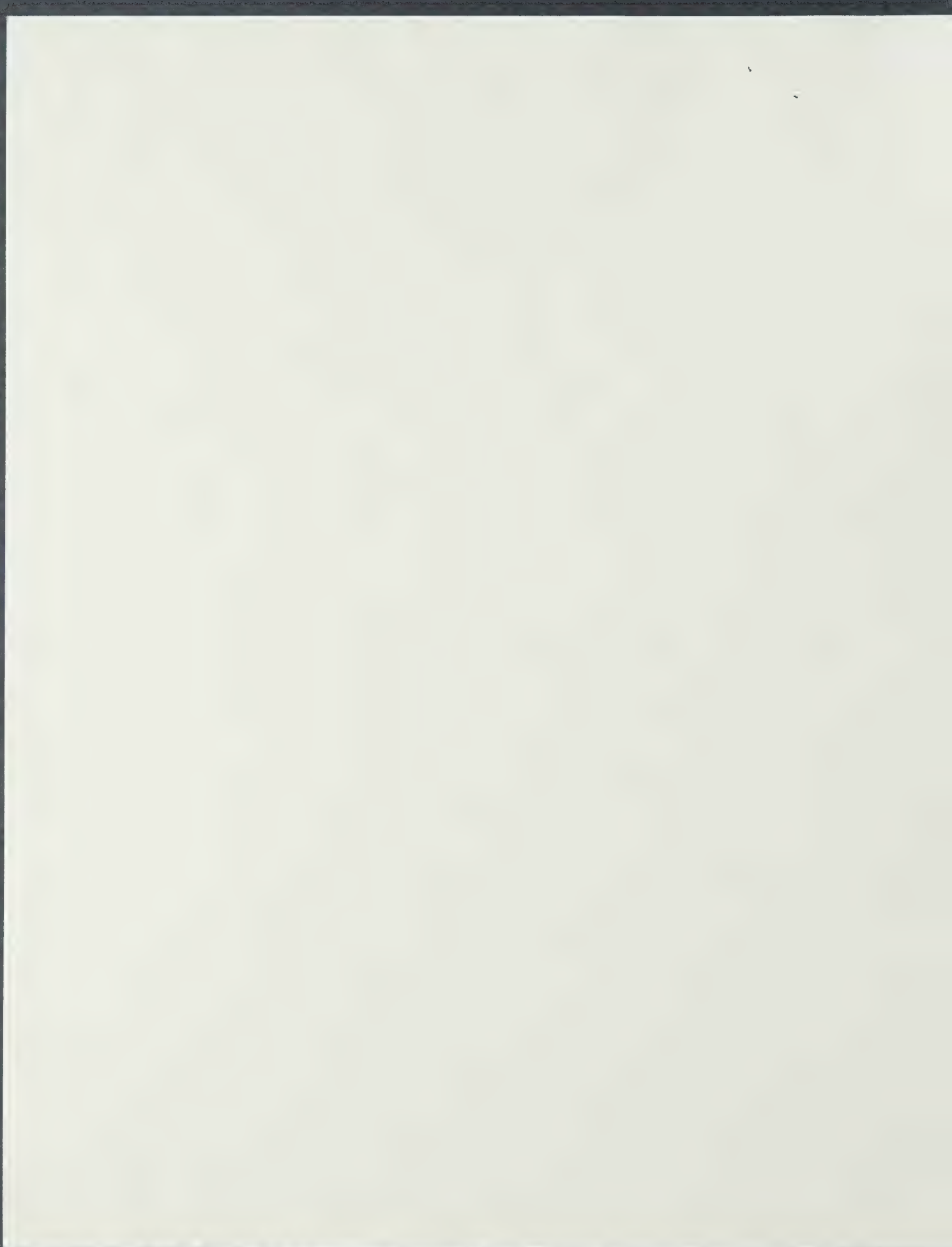
In response to your fax of October 27th, I am happy to be able to tell you that I have now received a legal opinion that the Isabel and Alfred Bader Foundation can make donations to the University of Sussex directly without having to go through your Friends organization.

Hence, I mailed a check for \$10,000 from the Foundation yesterday to Dr. David Walton in the Chemistry Department to help research there.

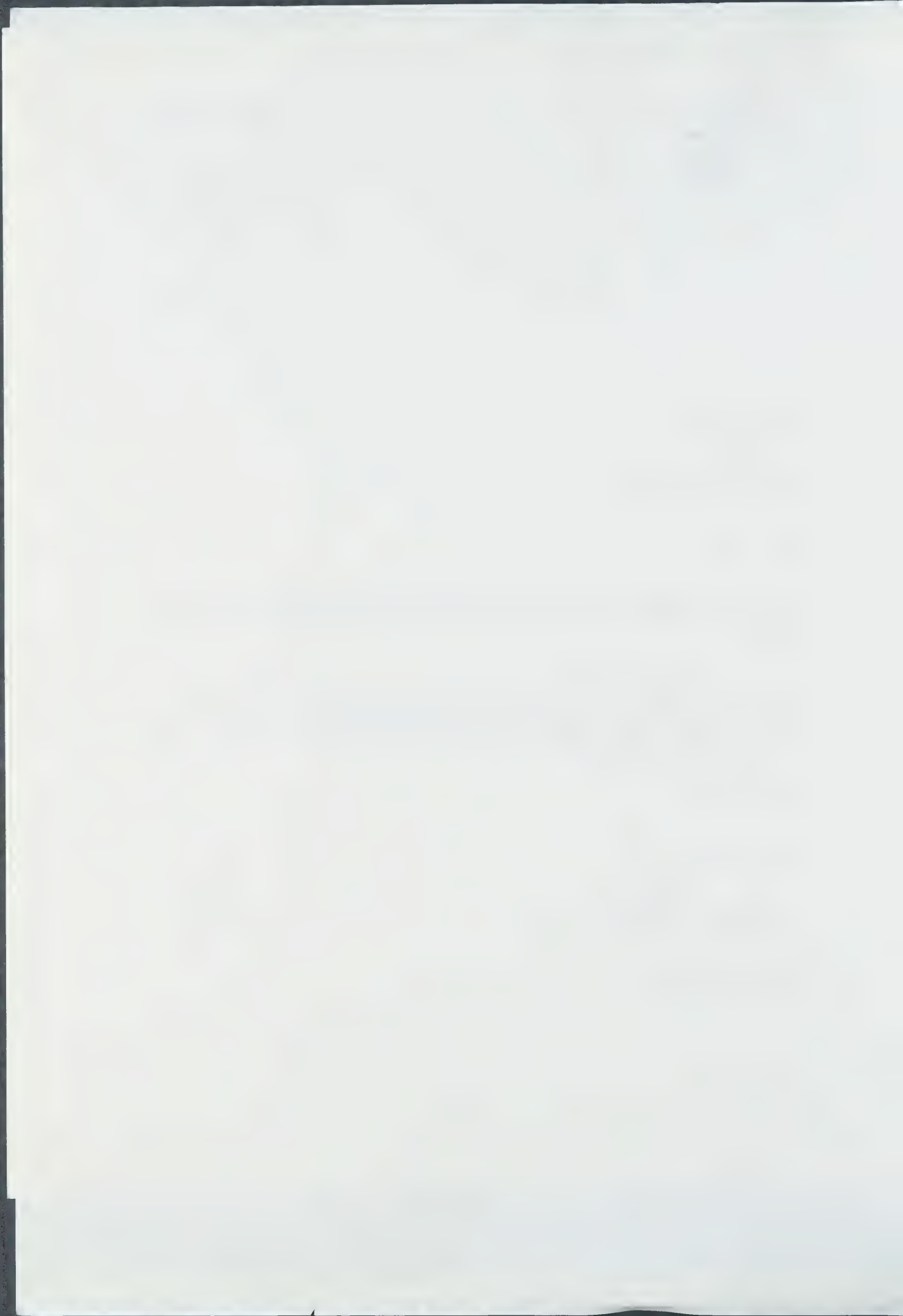
With all good wishes, I remain,

Yours sincerely,

AB/cw







UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

18 October 1995

Dr Alfred Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211

Dear Alfred

BUCKMINSTERFULLERENE DONATION

Thank you very much for your 13 October letter. We have received no information from either the Royal Society (Richard Gregory) or the Royal Society of Chemistry and therefore assume that overtures in those directions are unsuccessful.

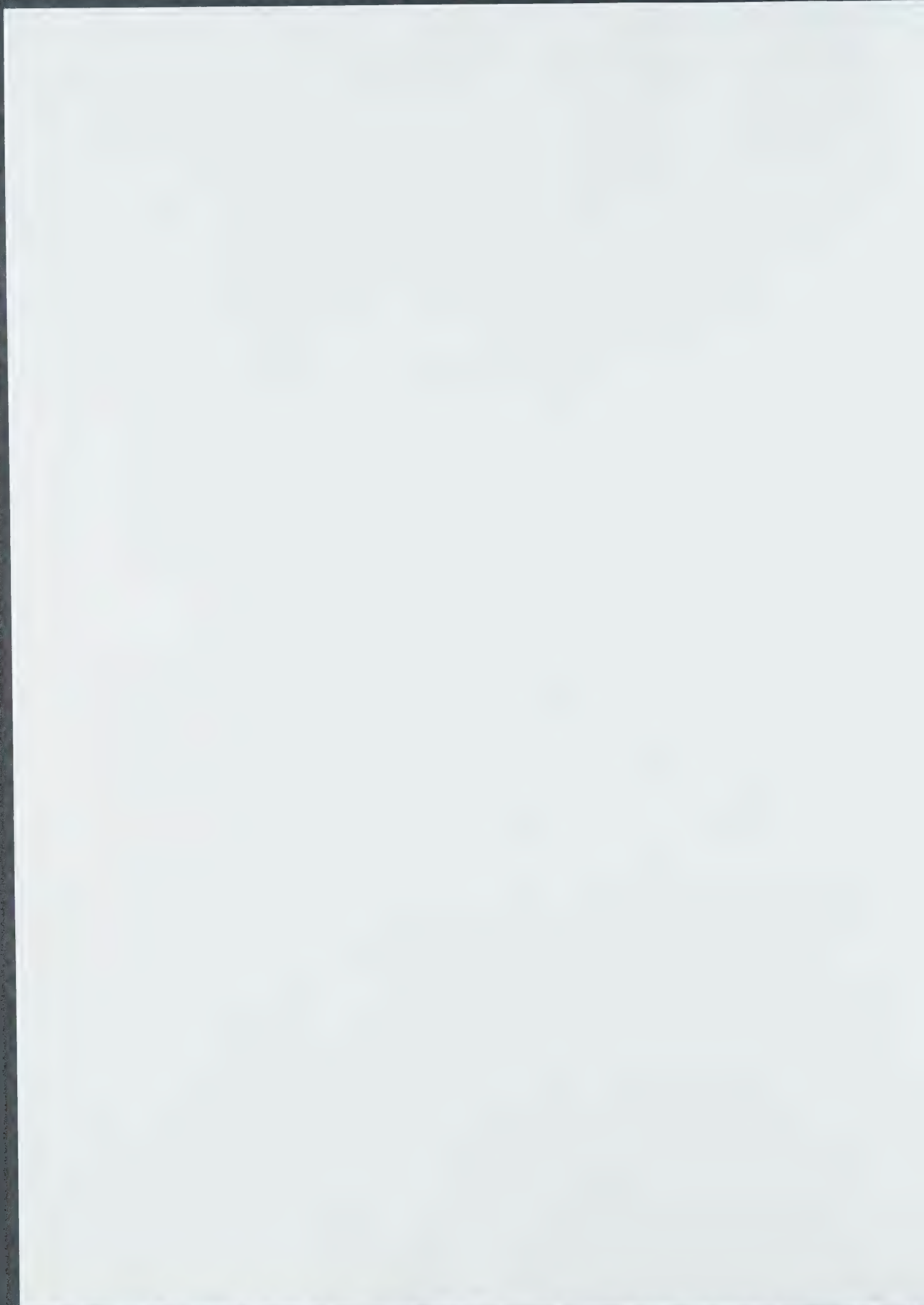
I do wonder whether you actually received my previous letter (19 September). In case you did not, I enclose a copy and am sending one to your East Juneau address, just to be on the safe side.

The Postdoctoral Fellow (Dr Thomas Müller - a graduate of Imperial College) started work here one week ago.

With best wishes.

Daniel

D R M WALTON





FAX FROM:

Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

October 31, 1995

TO: Dr. David Walton
Department of Chemistry
University of Sussex
FAX: 44-1273-677-196

Dear David:

You will recall that I promised a gift of \$10,000 this month to support your research provided that neither the Royal Society nor the Royal Society of Chemistry have helped.

Just today, I have received legal counsel that the Isabel and Alfred Bader Foundation may send a check to the University of Sussex to help that research. Thus, we avoid going through an intermediary and paying a commission.

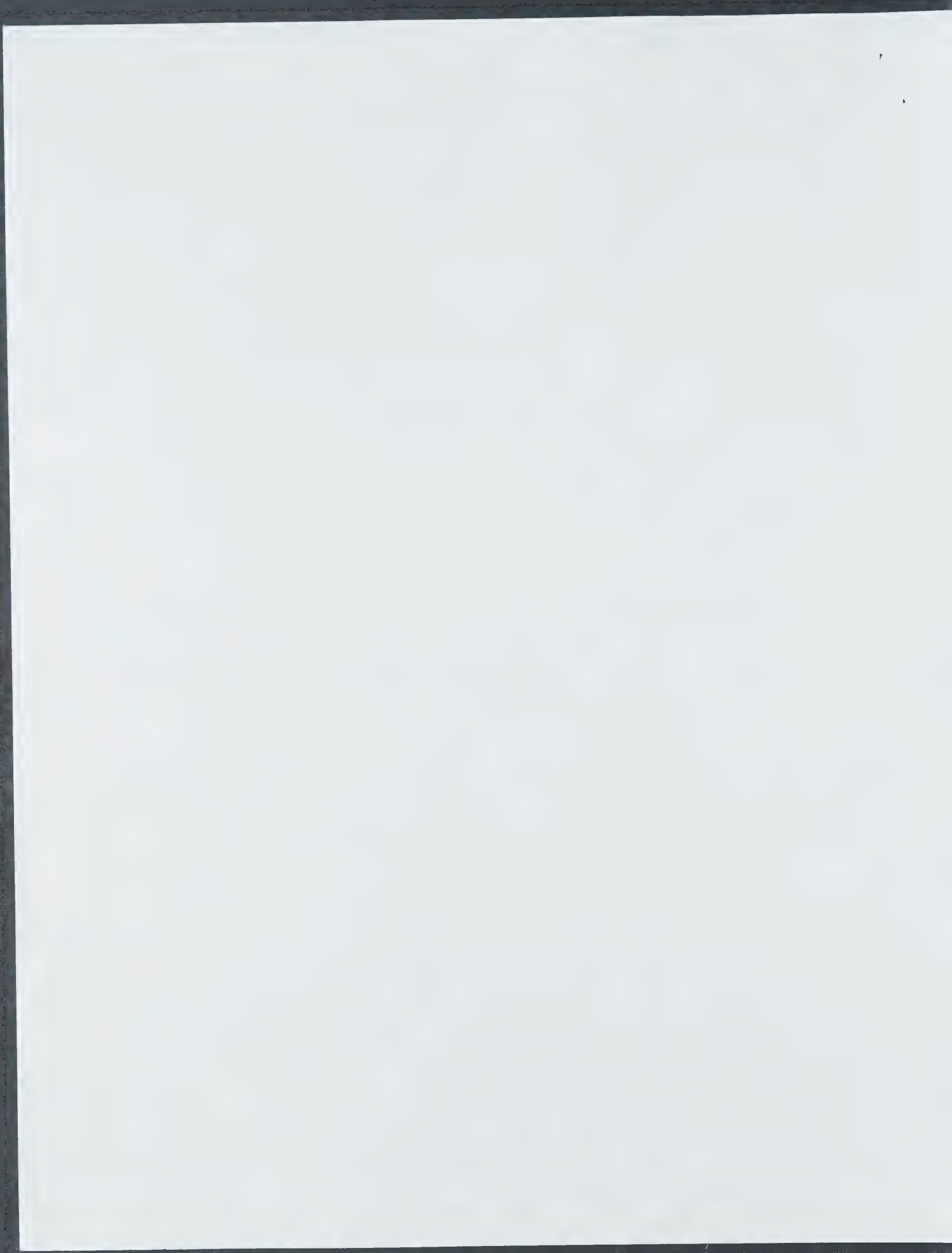
I am mailing you that check today and would appreciate your giving me a receipt when I visit you at the University on Thursday, November 23rd.

I was asked to give a lecture entitled "*The Bible Through Dutch Eyes*" at 5:00 that afternoon and of course very much hope to have a chance to visit your department before that.

With all good wishes, I remain,

Yours sincerely,

AB/cw



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

18 October 1995

Dr Alfred Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211

Dear Alfred

BUCKMINSTERFULLERENE DONATION

Thank you very much for your 13 October letter. We have received no information from either the Royal Society (Richard Gregory) or the Royal Society of Chemistry and therefore assume that overtures in those directions are unsuccessful.

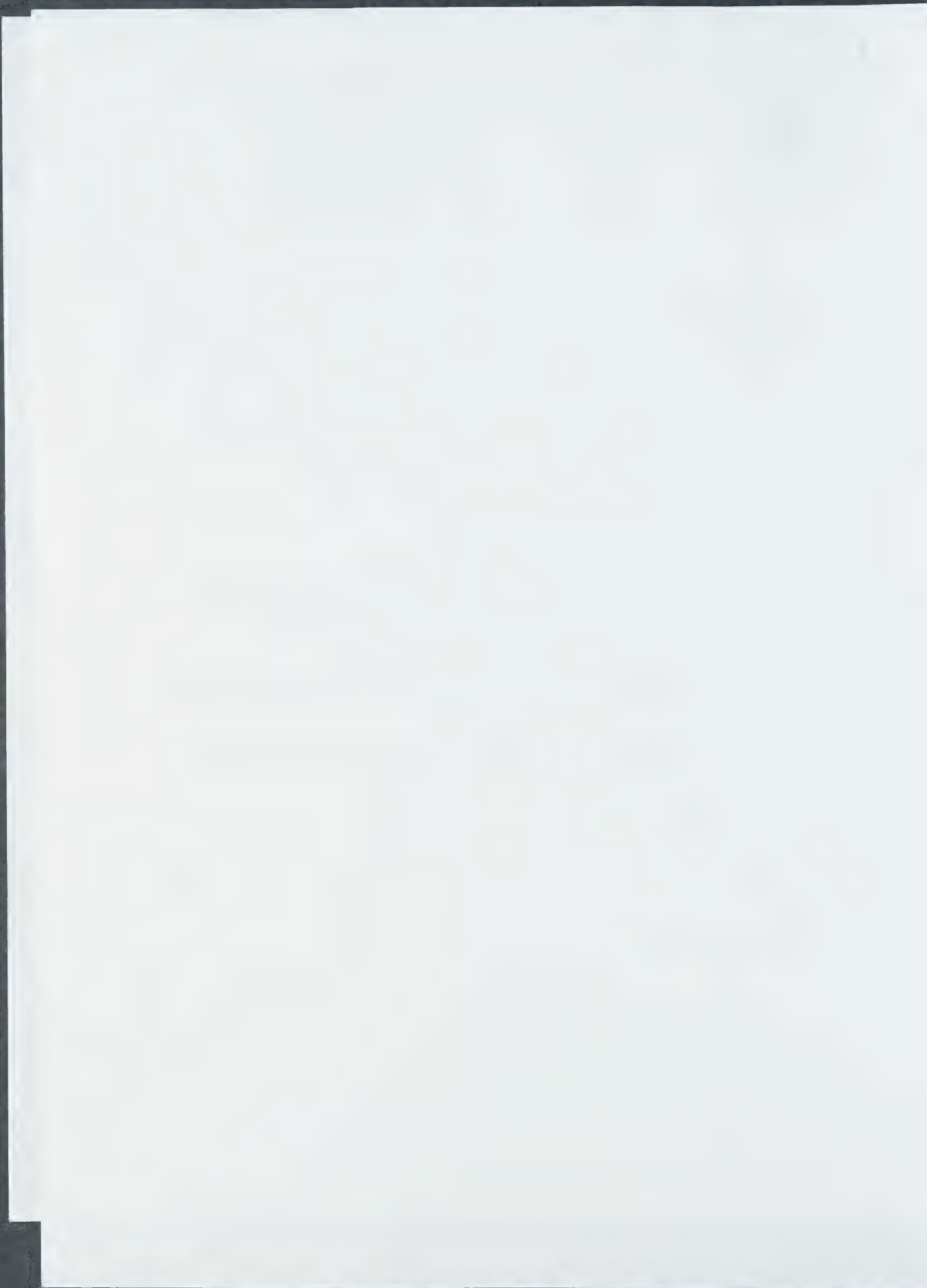
I do wonder whether you actually received my previous letter (19 September). In case you did not, I enclose a copy and am sending one to your East Juneau address, just to be on the safe side.

The Postdoctoral Fellow (Dr Thomas Müller - a graduate of Imperial College) started work here one week ago.

With best wishes.

David

D R M WALTON



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

03 November 1995

Dr Alfred Bader
924 East Juneau, Suite 622
Milwaukee
Wisconsin 53202
U.S.A.

Trip fax

Dear Alfred

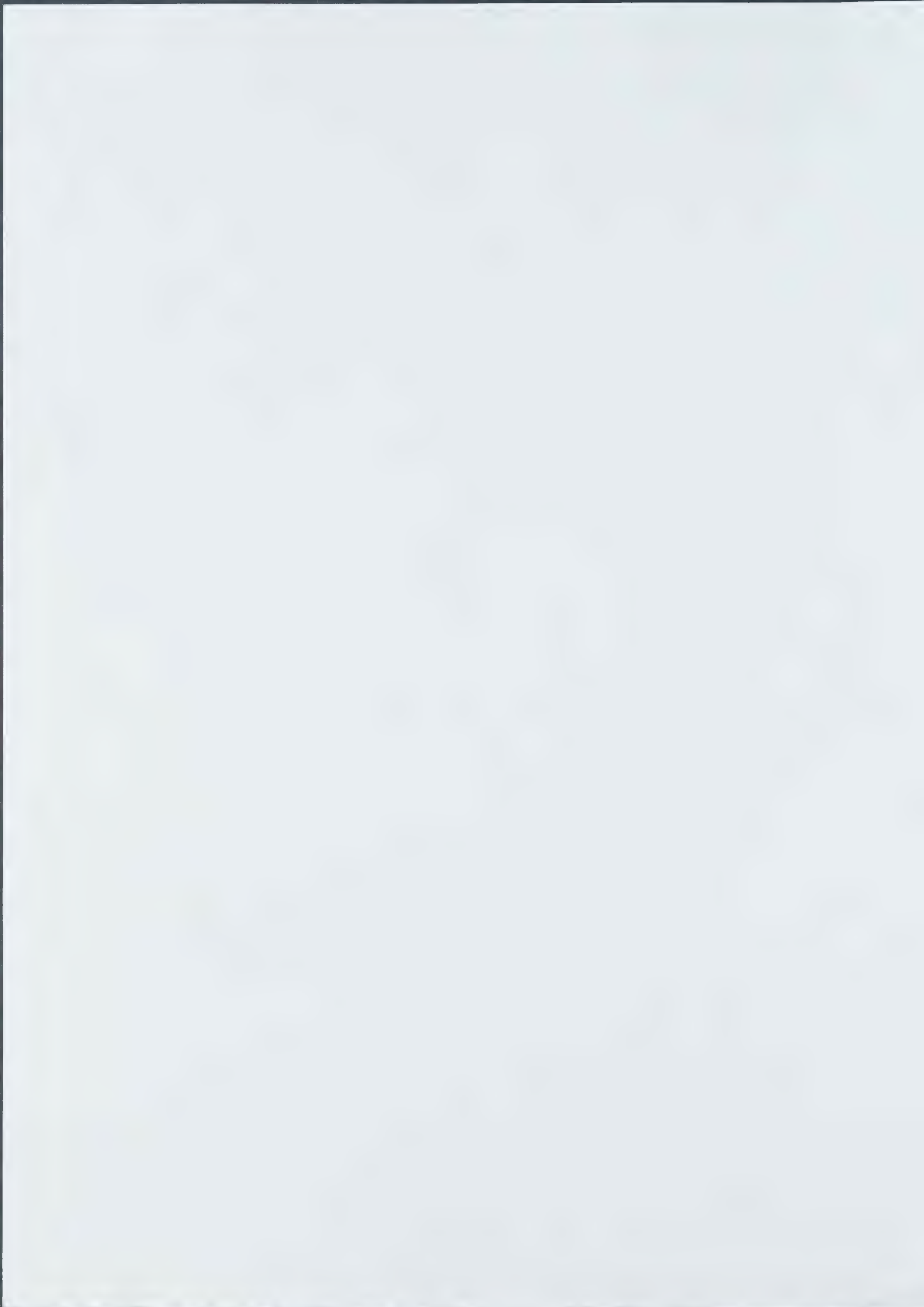
Thank you very much indeed for your 31 October letter, the US\$ 10,000 cheque - made payable to the University of Sussex - which accompanied it and for the preceding fax. I will have a receipt ready for you when you visit Sussex on Thursday 23 November. Unfortunately I teach virtually non-stop from 9.15 until 5 pm every Thursday so our meeting may be brief, but I will certainly attend (and am looking forward to) your lecture.

May I thank you once again, on behalf of the Fullerene Team, Harry Kroto and Thomas Müller (the postdoctoral fellow) for your kindness and generosity.

Yours very sincerely

D R M Walton

cc H W Kroto



UNIVERSITY OF



SUSSEX
AT BRIGHTON

Dr. Alfred Bader
52 Wickham Avenue
Bexhill-on-sea

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

(☎ direct 01273 678326)
e-mail J.Hudson@susx.ac.uk
26 June, 1995

Dear Alfred,

Thank you for your sympathetic response to my 09 June letter. I am so sorry for mistyping my home telephone number which is 01273 473062. I will be here all day on 29th June, but in London on 30th. I will telephone you at home, if I may, on the evening of the 29th.

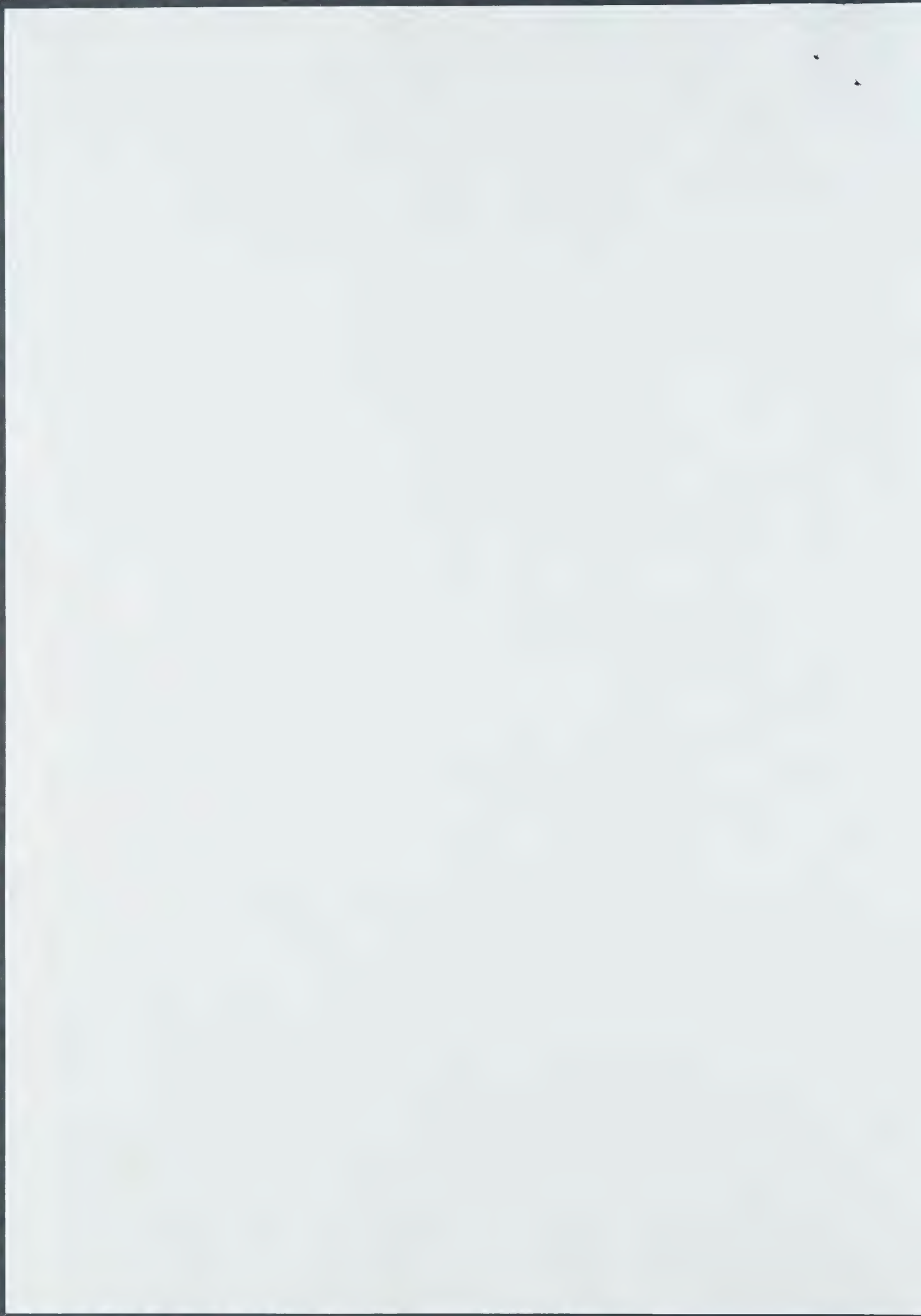
The conferences in Varenna and St. Petersburg went well. New discoveries in fullerene chemistry show no sign of slackening. The Russian government currently funds 70 projects! Our position is still as it was when I last wrote to you.

With best wishes,

Yours sincerely,

J. Hudson

R. Gregory



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

Dr Alfred Bader
52 Wickham Avenue
Bexhill-on-sea

09 June 1995

Dear Alfred

I needed to contact you (for reasons set out in the accompanying letter), telephoned Milwaukee yesterday, and was advised that you were en route to the UK, so thought it best to write direct to Bexhill.

Harry, Roger Taylor and I are invited speakers at Conferences in successive weeks (12-16 June, Varenna; 19-23 June, St Petersburg). I will return to the University briefly during Friday afternoon (16th) to deal with and urgent matters, otherwise I'll be back to Kingston (01273 473962) on Saturday 24th. I would be very grateful if you could leave a message, either at home (my wife is staying behind because of her aged parents) or with Jean Hudson (01273 678136), so that I may know how best to get in touch with you. *

I do hope Isabel and you are in good health and that you had a trouble-free journey.

With kind regards

Yours sincerely

Diana Wallin

Jean David

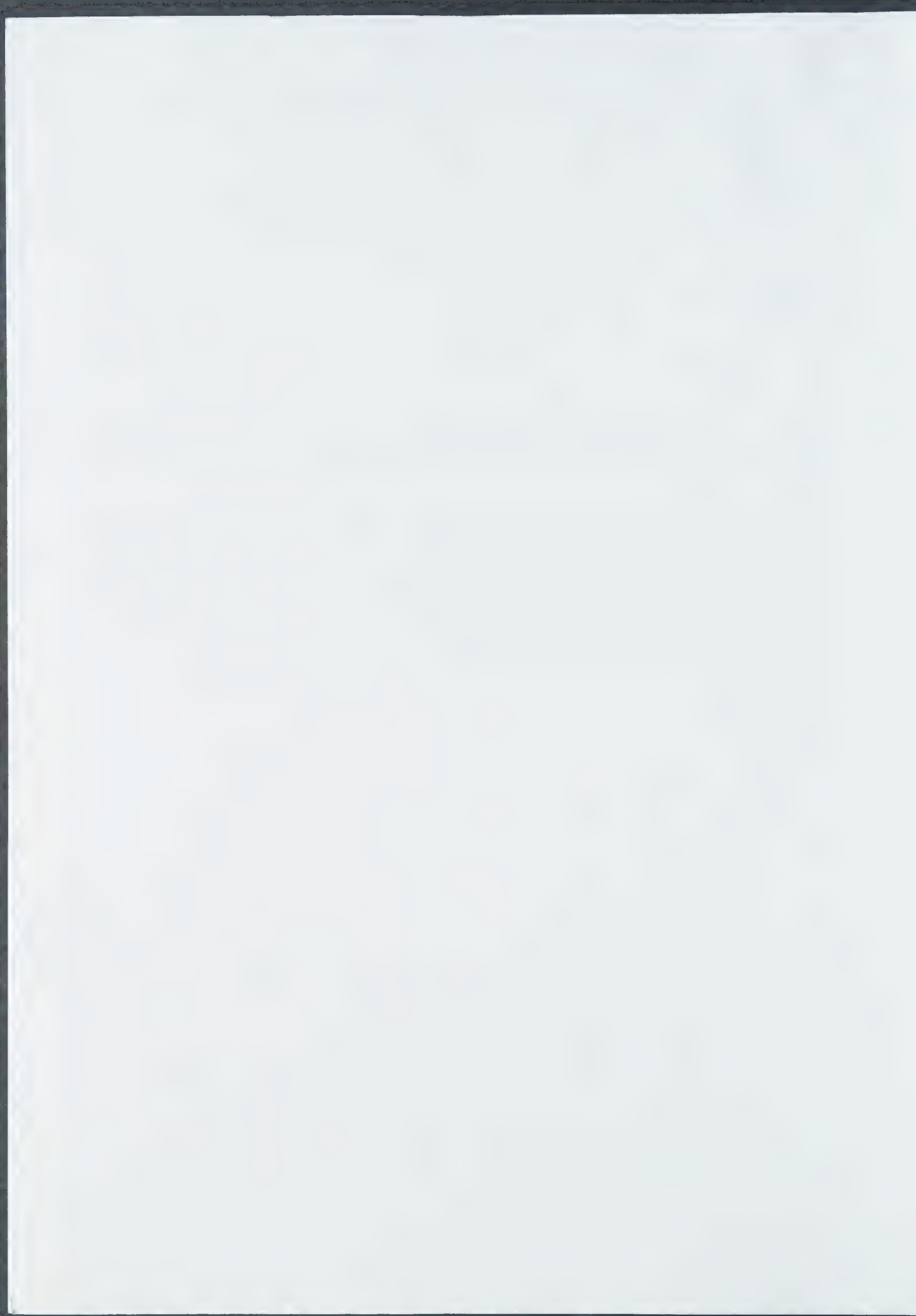
* Sadly you gave wrong number - we are just off to the continent and back on June 29. I'll call you to discuss - what a horrible problem!

My phone # is 01424 222223

Best wishes *Hurriedly*

Alfred

17 vi 95



UNIVERSITY OF



SUSSEX
AT BRIGHTON

Dr Alfred Bader
52 Wickham Avenue
Bexhill-on-sea

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

09 June 1995

Dear Alfred

Funding for our Fullerene chemistry program at Sussex has collapsed and, as a consequence, we face the real possibility that our key postdoctoral fellows (Paul Birkett and Mohammed Meidine) whose accumulated expertise is irreplaceable, will have to leave in the autumn. Our key technician (Adam Darwish), as things stand, will have to follow suit at the end of the year. I am writing, on behalf of the team, to relate to you briefly what has happened.

Following the breakthrough in C₆₀ production (August 1990) we made two unsuccessful applications to the SERC (Science and Engineering Research Council, UK) for funding. Eventually, in late 1991, we were extremely fortunate in that BP and ICI/Zeneca came to our rescue and provided support which enabled us to employ Birkett and Meidine, whose contracts finish in late September. In order not to rely solely on these two Industrial sources, we applied repeatedly to the SERC (now the EPSRC) for postdoctoral and technical support during 1992-94. As a result of this sustained effort we received sufficient SERC funds to employ one technician (Darwish) and to purchase HPLC equipment, but our (six) requests for postdoctoral support were rejected. Despite these setbacks, our Fullerene publications record is, I believe, exceptional; 120 papers since 1990. We are regarded as the leading group within the UK, arguably among the foremost in the World. Above all, at this stage it is vital that we retain the services of Birkett and Darwish. Earlier this year Birkett approached both the Leverhume Trust and to the Royal Society for funds; he has recently heard that these applications too have been unsuccessful. Both Organisations are under severe pressure due to the massive cutbacks in Government Funding for basic research. We have just been advised by the Chemistry Secretariat that our latest EPSRC application is extremely unlikely to be funded.

Our immediate need is to retain Paul Birkett who is keen to remain at Sussex. There is no immediate prospect of him joining the permanent academic staff here, although a successful Royal Society application would have improved his chances and could conceivably have tided him over. The salary outlay for him for one year would be not more than £20,000. Ancillary costs can just be covered from Harry Kroto's Royal Society Grant. The salary we simply cannot meet.

In there any way in which you could assist or advise us where to turn for financial help? We do hope so.

With best regards

D R M Walton

D R M Walton





Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

August 29, 1995

Dr. Harry Kroto
School of Chemistry and Molecular Sciences
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Harry:

I am sorry that a long trip to England has delayed my thanking you for your letter of December 8th with those most interesting enclosures.

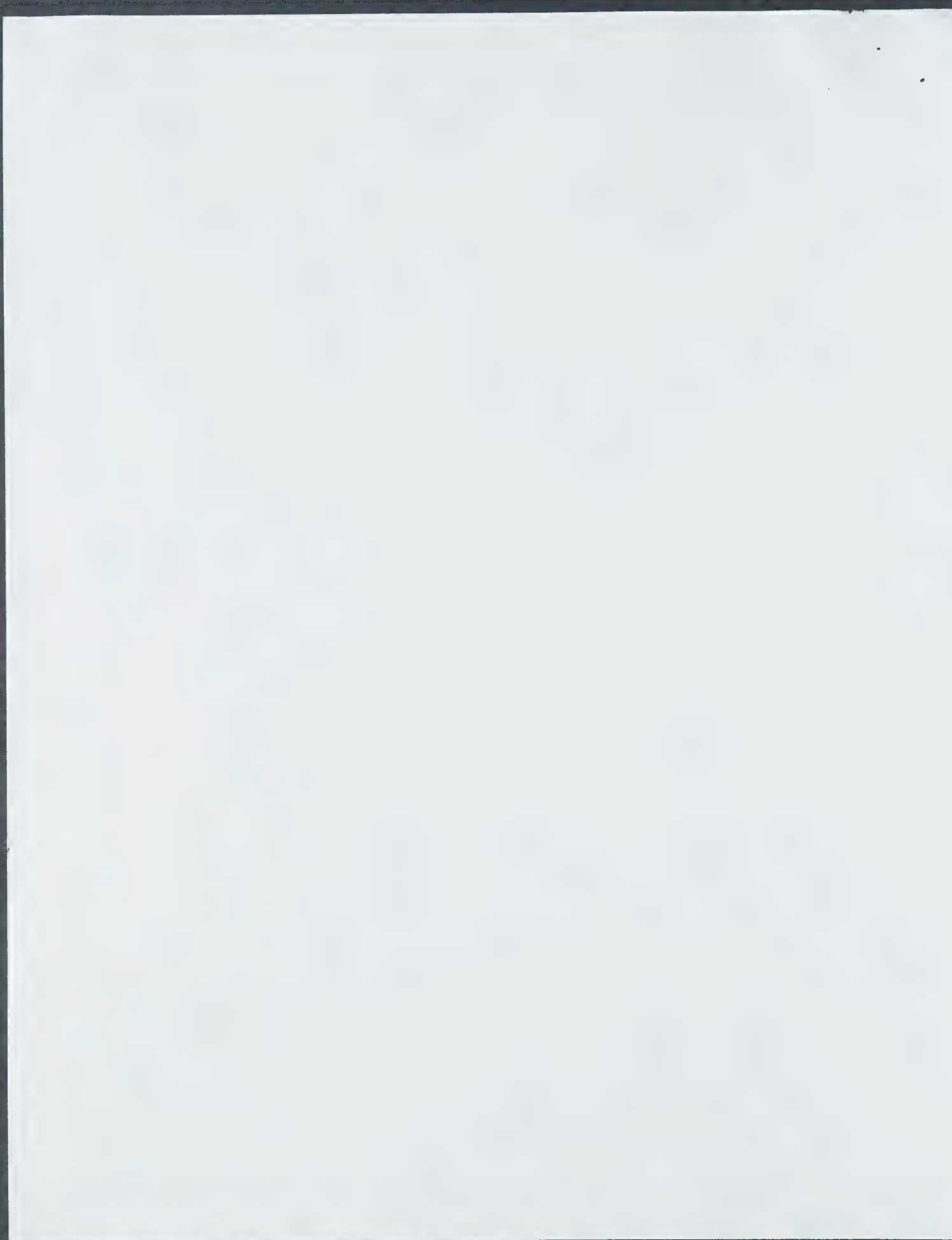
Thank you, also, for sending me one of Blossfeldt's books, to which I look forward.

David Walton is one of my favorite people in Britain, and of course, I would be just delighted to send a supporting letter.

With all good wishes, I remain,

Yours sincerely,

AB/cw



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

8 December, 1995

Dr. Alfred Bader,
924 East Juneau, /suite 622,
Milwaukee,
Wis 53202,
USA

Dear Alfred,

I am very sorry that I could not come to your presentation on "Rembrandt and the Jews" and I am sure I would have thoroughly enjoyed it. However, I thought I would send you a copy of one of my favourite books (under separate post). When I discovered Blossfeldt's work a couple of years ago I found it quite remarkable. There are several Books available but this small one from Schirmer/Mosel is my favourite. Please accept it as a personal gift for the help you have given to the group in general and to David in particular. I hope in the near future to forward David's name for an award and I would very much wish that you would be able to help me with a supporting letter when I put the nomination together.

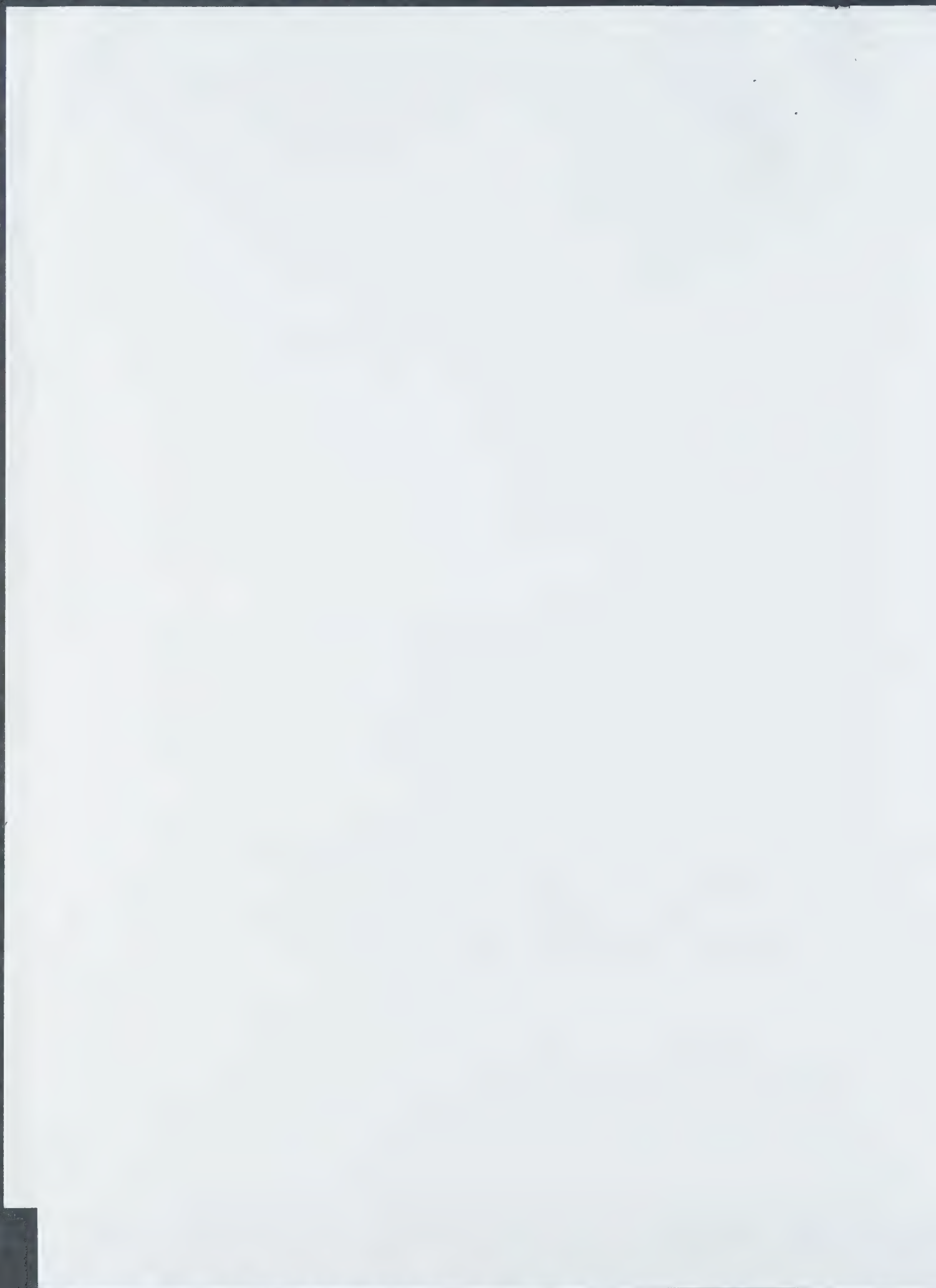
I have recently set up a Trust to put more science films on television and one of these was by David Bomford on Science and Fine Art. I think it is the best we have produced so far. As soon as we have copies available for distribution I shall send you a copy. However, the PAL - NTSC problem between Europe and US TV systems may cause a problem. I enclose an abstract of David Bonford's presentation and details of the Vega Trust's efforts and aims. David was an MSc student with John Nixon at Sussex and has risen to become a senior restorer at the National Gallery and advisor to the Getty Museum in LA.

My very best wishes.

A handwritten signature in cursive script that reads "Harry Kroto".

Harry Kroto

Professor H.W. Kroto, FRS
(☎ direct 01 273 678329) e-mail kroto@sussex.ac.uk



Friday, November 17

Science and Fine Art

DAVID BOMFORD, M.Sc., F.I.I.C.

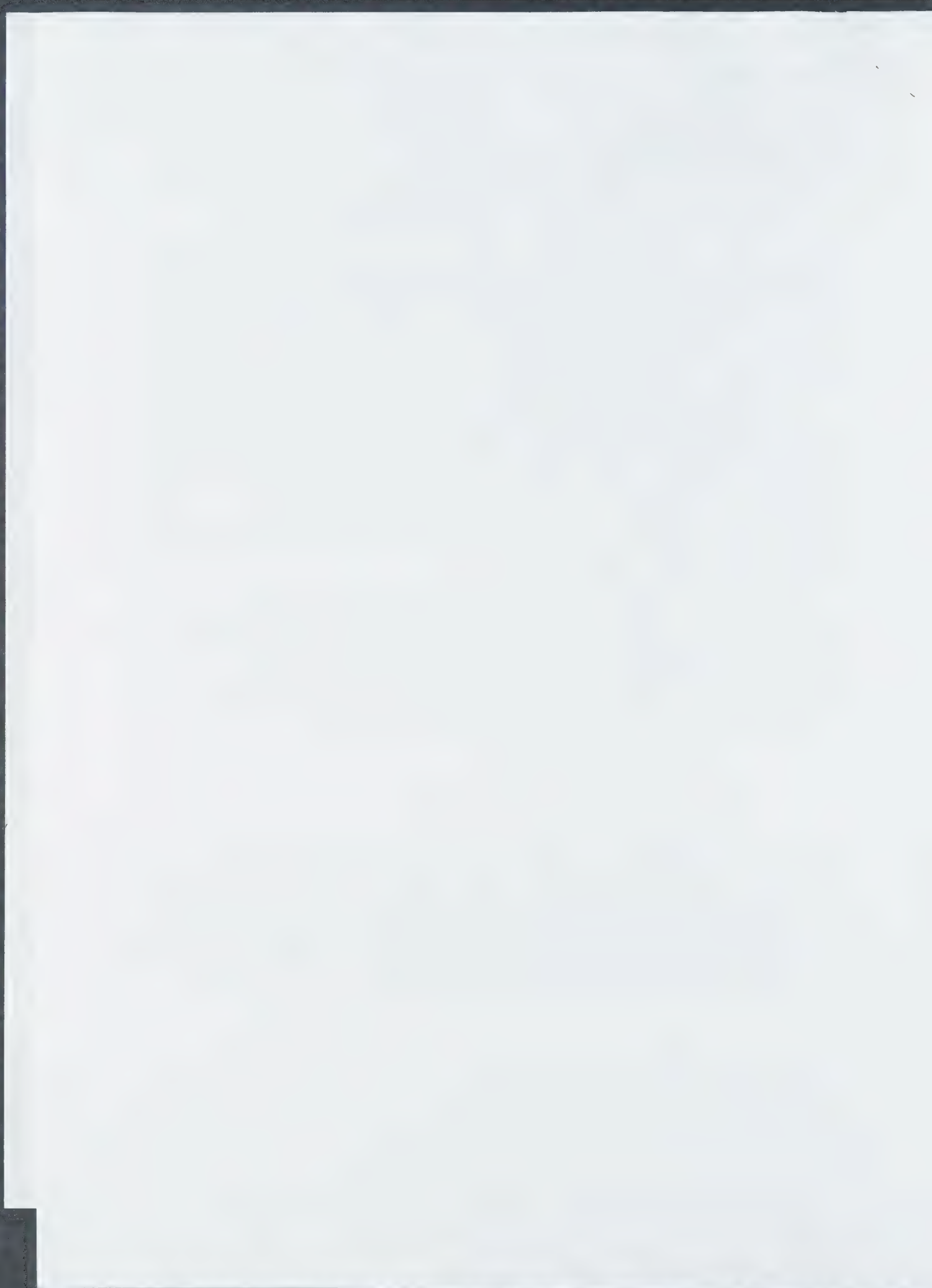
Senior Restorer of Paintings, The National Gallery

There is a long tradition of applying a scientific perspective to the study of works of art. One of the greatest recorders of the techniques of seventeenth-century painters was Sir Theodore Turquet de Mayerne, Royal Physician to the courts of James I, Charles I and Charles II, who not only observed Rubens, Van Dyck and their contemporaries at work, but also applied his scientific training to technical aspects of the subject and carried out experiments on artists' materials.

In the nineteenth century, Michael Faraday and others considered the effects of light and pollution on paintings in the National Gallery and elsewhere: Faraday advised that 'a person of competent chemical knowledge and a little acquainted with paintings in ancient and modern times might be valuably employed in ascertaining such points'. At the end of the nineteenth century, Röntgen's newly discovered X-rays were tried out on paintings long before their medical potential was realised.

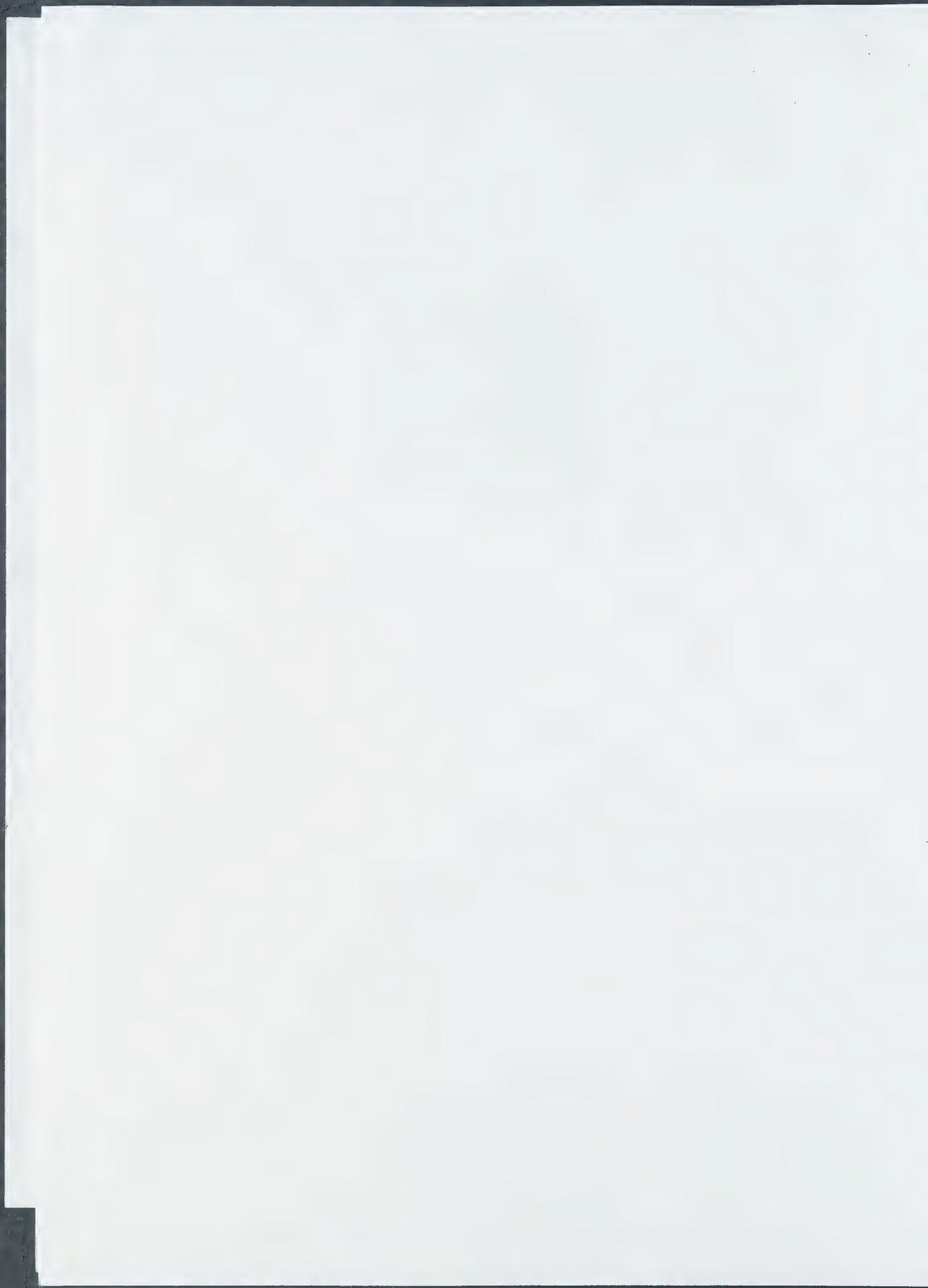
The Discourse will review past and present approaches by science to the field of fine art, look at ways in which art history has been illuminated by technical studies and show how technology can be directed towards active and preventive conservation to ensure the survival of works of art for future generations. At the same time, fallibilities of the scientific method in a world of aesthetics and connoisseurship will be gently explored.

The Lecturer: born 1946, read Chemistry at Sussex University, where he also took an M.Sc. in Organometallic Chemistry. Joined the National Gallery as Assistant Restorer, 1968, later becoming Senior Restorer and working on many well-known paintings. In recent years he has specialised in the study of historical painting techniques and was co-author and co-organiser of the award-winning series of Art in the Making catalogues and exhibitions at the National Gallery. He is currently Secretary-General of the International Institute for Conservation, and will be Slade Professor of Fine Art at Oxford University in 1996-7.



The Vega Science Trust





THE VEGA SCIENCE TRUST

INTRODUCTION

The Vega Science Trust has been set up to produce Science films for television. The films not only reflect the excitement of scientific discovery but also the intrinsic concepts and principles without which fundamental understanding is impossible. The Trust also seeks to preserve our Scientific cultural heritage on film.

In the longer term the Trust sees the inauguration of a *SCIENCE NIGHT* occupying a traditional slot in UK television broadcasting schedules as a key objective. In this way Scientists will acquire, *for the first time*, a regular forum for accurate representation and well-considered debate of serious socio-economic issues.

The pilot series is to be broadcast during Autumn 1995 on BBC2 as part of BBC Education's open access night-time output for time-shifted recording. Programmes will include 1hr films of Royal Institution Discourses and Scientific archival material.

THE VEGA SCIENCE TRUST

In 1994 the Vega Science Trust started to produce scientific films for a target audience which includes not only the education and science communities but also members of the public who wish to further their scientific understanding and a genuine interest in serious appraisal of the way scientific matters affect everyday life.

The Trust is already providing a variety of films through broadcast and other media with the following objectives:

- To improve understanding of scientific achievements and raise awareness of the contributions that Science has made to the social and economic well-being of society.
- To reveal the excitement of discovery and uncover the intrinsic intellectual nature of the scientific experience - aspects continually avoided in media analysis of Scientific issues.
- To recognise and celebrate the achievements of scientists.

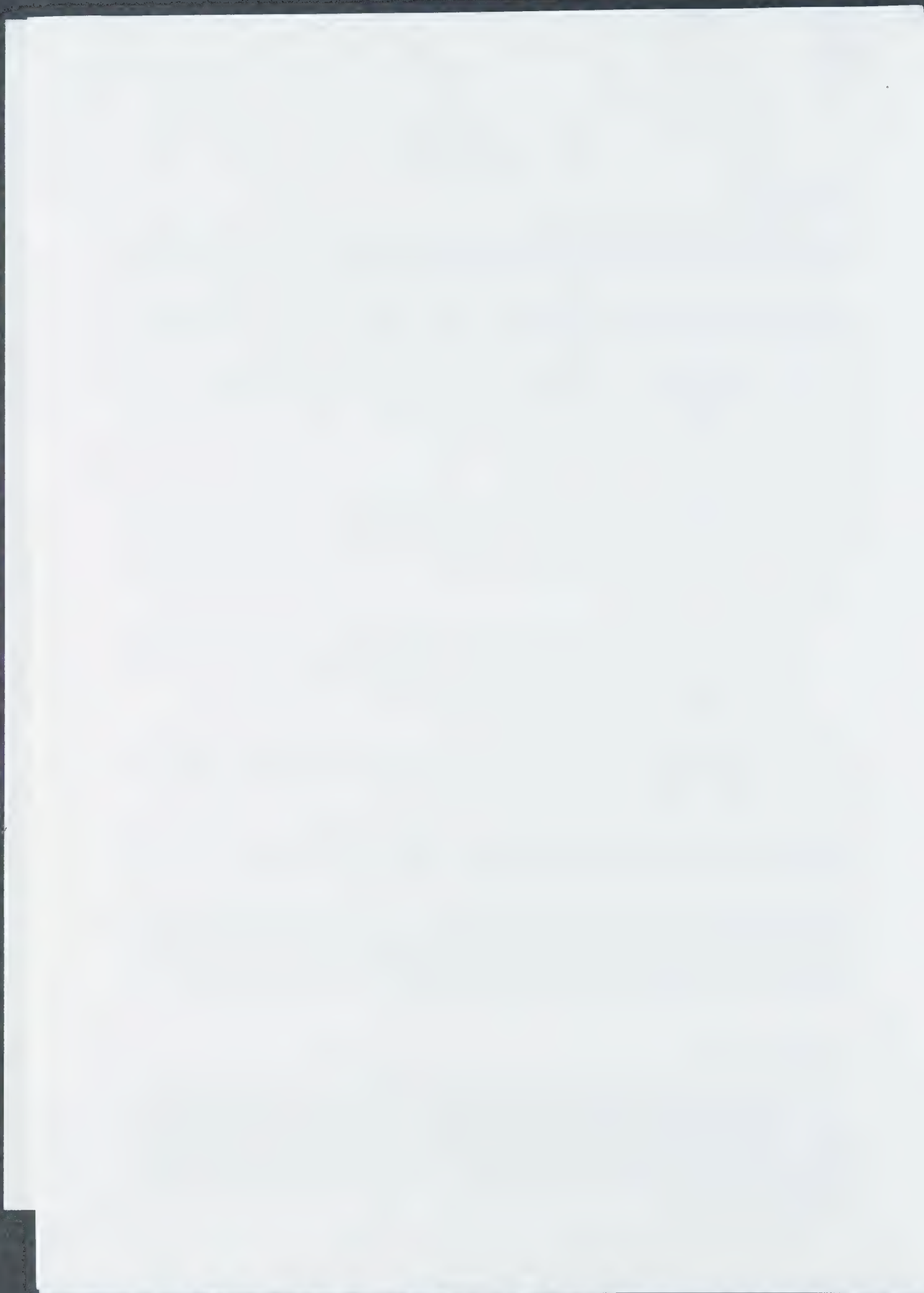
Although science forms a major part of our cultural heritage and exerts an overwhelming influence on the economic and social infrastructure of everyday life, the general appreciation of the scale of this contribution is poor. The Vega Science Trust is redressing the balance by producing a series of television programmes which focuses on the massive past, present and future contributions of science.

The Trust aims to provide Scientists with a forum in which scientific matters of socio-economic importance can be addressed with carefully considered and accurately reasoned debate. Such a forum will enable Scientists to communicate effectively with the general public as well as with other scientists.

The programmes present science in a natural way as an intellectually challenging discipline offering a fulfilling and exciting career enabling individuals to make contributions for the benefit of society. They aim to celebrate past, as well as recent, scientific achievements and illustrate how scientific endeavour more than anything else has enhanced the quality of modern life. A fundamental philosophy of the programmes is the principle that key scientific concepts, without which understanding is impossible and science cannot be communicated, will be tackled in an imaginative and clear manner.

THE SCIENCE NIGHT

A key part of the Trust's aim is to initiate the concept of a *SCIENCE NIGHT* to become the traditional Science slot on Television. Only if the target audience becomes habitually used to the idea that scientific broadcast material is available *at a particular time on a particular day each week* can this channel of communication become a viable proposition. The pilot *SCIENCE NIGHT* series of programmes will be broadcast on BBC2 during Autumn 1995. This service is already used by schools and has an excellent track record of reaching this and other target audiences. These are standard transmissions and no decoder is necessary for receiving and recording the programmes.



PROGRAMMES

Initially the Trust is producing a package of programmes in three formats:

- i) Royal Institution Discourses
- ii) Interviews with Leading Scientists
- iii) Science Archive Films

Royal Institution Discourses

The *Royal Institution* (London) Discourses have been held continuously since 1826 when they were first instituted by Michael Faraday as a means of informing the general public about the intellectual, economic, social and ethical aspects of scientific advances. The *Vega Science Trust* has already recorded selected Discourses for broadcast on BBC Television.

Interviews and Archival Films

Films of interviews with leading scientists and science archive material are now being researched and the first ones are scheduled to be produced later in the year.

VHS videotape recordings of discourses are also available (PAL (EU) standard and/or NTSC (US/Japan)). Further information can be obtained from the Trust. All proceeds from sales go towards covering costs and the recording of future presentations and the production of films whose primary purpose will be to increase the public understanding of science.

FINANCIAL SUPPORT

The Vega Trust is seeking financial support from a variety of sources to enable the above objectives to be met. In the first year the trust has been successful in gaining support from both private and public sector sources. This support has enabled the Trust to record five RI Discourses. So far support has come from: *Nuclear Electric, Hitachi Co, The Royal Society, The Royal Society of Chemistry, The Royal Institution, the Office of Science and Technology, the Engineering and Physical Sciences Research Council and the Biotechnology and Biological Sciences Research Council.*

THE VEGA TRUSTEES

Harold Kroto FRS, who is a Royal Society Research Professor of Chemistry at the University of Sussex, is best known for his part in the discovery of C_{60} , Buckminsterfullerene. Dr Patrick Reams, who is a Producer of Science Programmes for Television, initiated the project to make recordings of key Royal Institution Discourses. Co-trustees are: Professor Peter Day, FRS who is the Director of the Royal Institution, Dr Eurfron Gwynne Jones who was formerly Director of BBC Education and Murray Weston who is the Director of British Universities Film & Video Council. The Patron is Lord Porter OM FRS who was awarded the Nobel Prize for Chemistry for developing techniques for studying fast reactions.

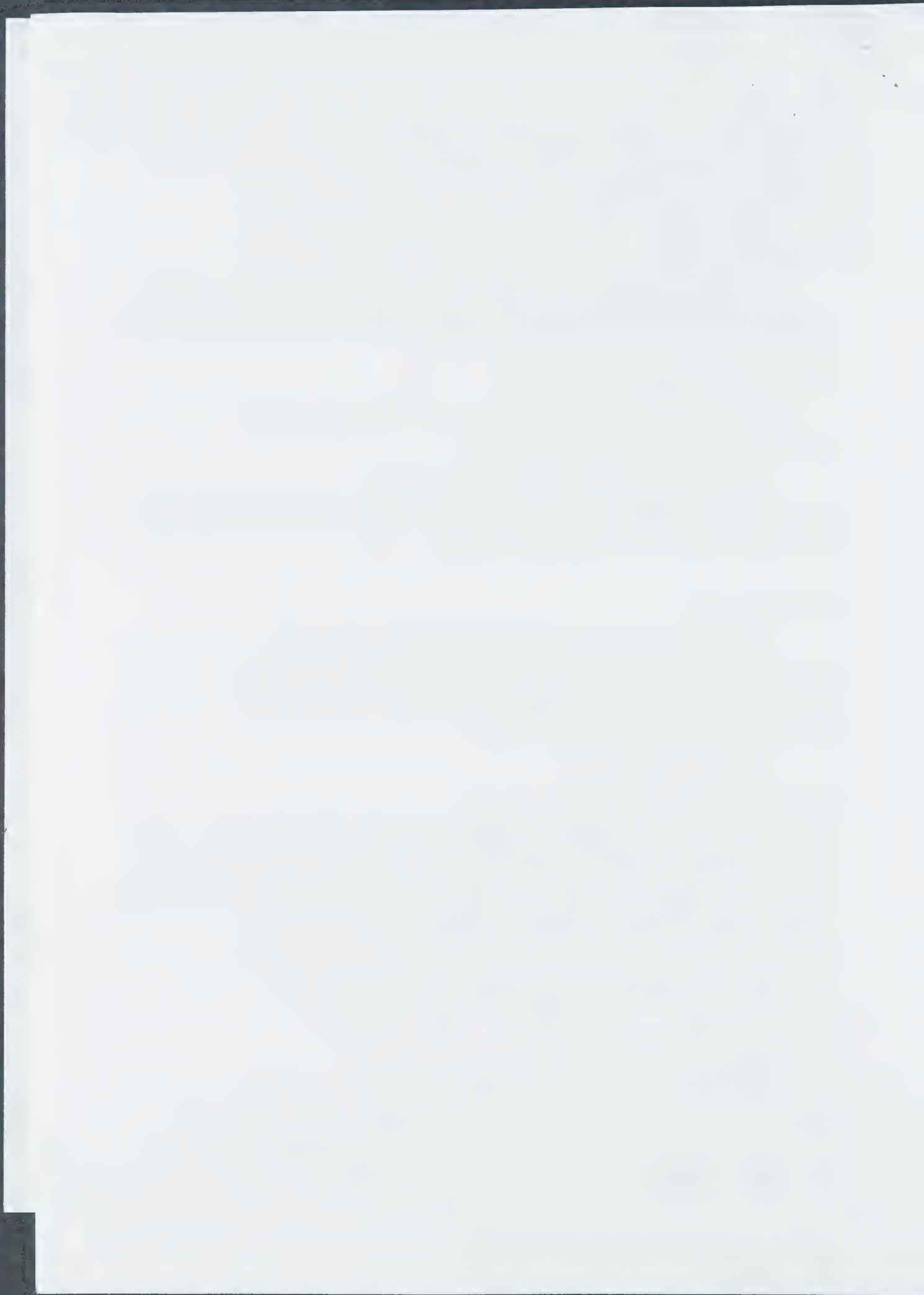
PLEASE CONTACT THE TRUST WITH ADVICE AND FOR FURTHER INFORMATION

The Trust is keen to obtain advice and feedback and, in particular, suggestions on:

- a) Outstanding presenters of science
- b) Individual Scientists to be interviewed
- c) Archival material which should be re-broadcast

Please communicate your advice, together with: Name, address, tel/fax/email information to:

The Vega Science Trust, Vega, Kingston Road, Lewes, Sussex, BN7 3NB, UK. Tel: [44] 01 273 678129

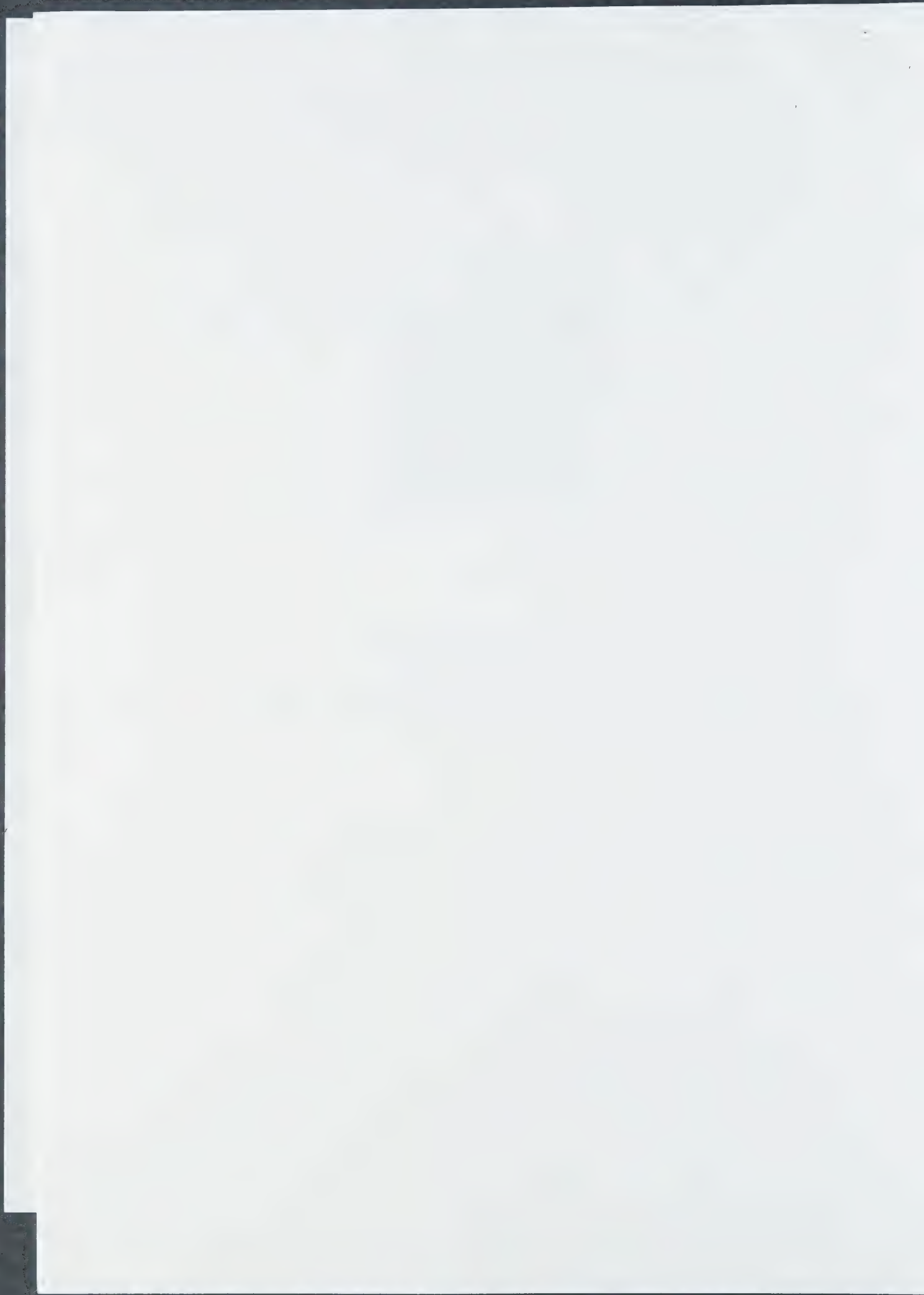


The Vega Science Trust



VEGA SCIENCE FILMS

Produced by the Vega Science Trust for BBC Television



VEGA SCIENCE FILMS

A series of Royal Institution Discourses recorded by the Vega Science Trust for BBC Television

1) **The Origin of Life**

John Maynard Smith, *University of Sussex*

A lecture about the essential features of life: heredity and DNA. The processes upon which all life depends are becoming well understood but appear to be far too complicated to have arisen by chance in the primitive oceans. How can this apparent paradox be resolved?

2) **The Chemistry of the Interstellar Space**

William Klemperer, *Harvard University, USA*

Radioastronomical observations of our galaxy have revealed hordes of molecules in the interstellar medium. Extremely fast reactions result in the high abundance of complex organic compounds in the space between the stars. Amazingly, the key to all this is the chemistry of the helium ion!

3) **C₆₀ Buckminsterfullerene, the Celestial Sphere that Fell to Earth**

Harold Kroto, *University of Sussex, Brighton*

In 1985 an experiment, designed to unravel the carbon chemistry in Red Giant Stars, revealed the existence of C₆₀ Buckminsterfullerene (the third allotropic form of carbon). This elegant cage molecule which has the same shape as a football heralds a new era of novel 21st Century Materials

4) **Electron Waves Unveil the Microcosmos**

Akira Tonomura, *Hitachi Ltd, Japan*

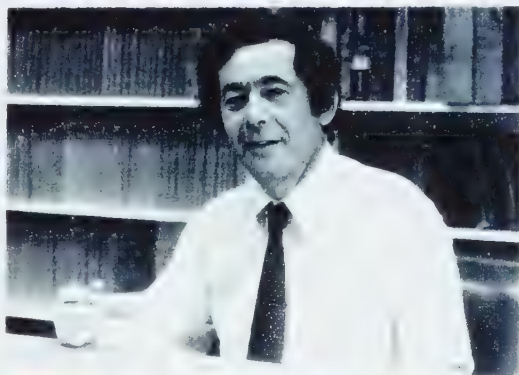
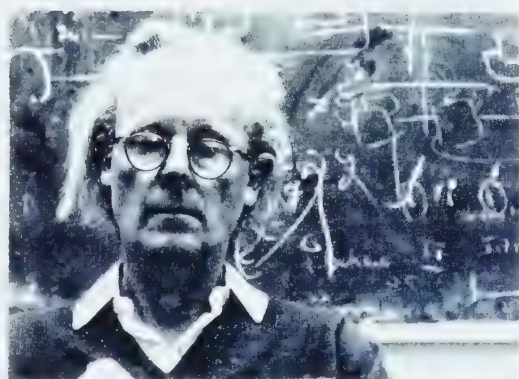
The lecture explains how, we can "see" lines of force *inside* a solid magnet. The studies reveal a fascinating dynamic world in which lines of force form vortices (quantised bundles) that hop and swirl inside a superconductor (much like tornadoes do in the atmosphere)

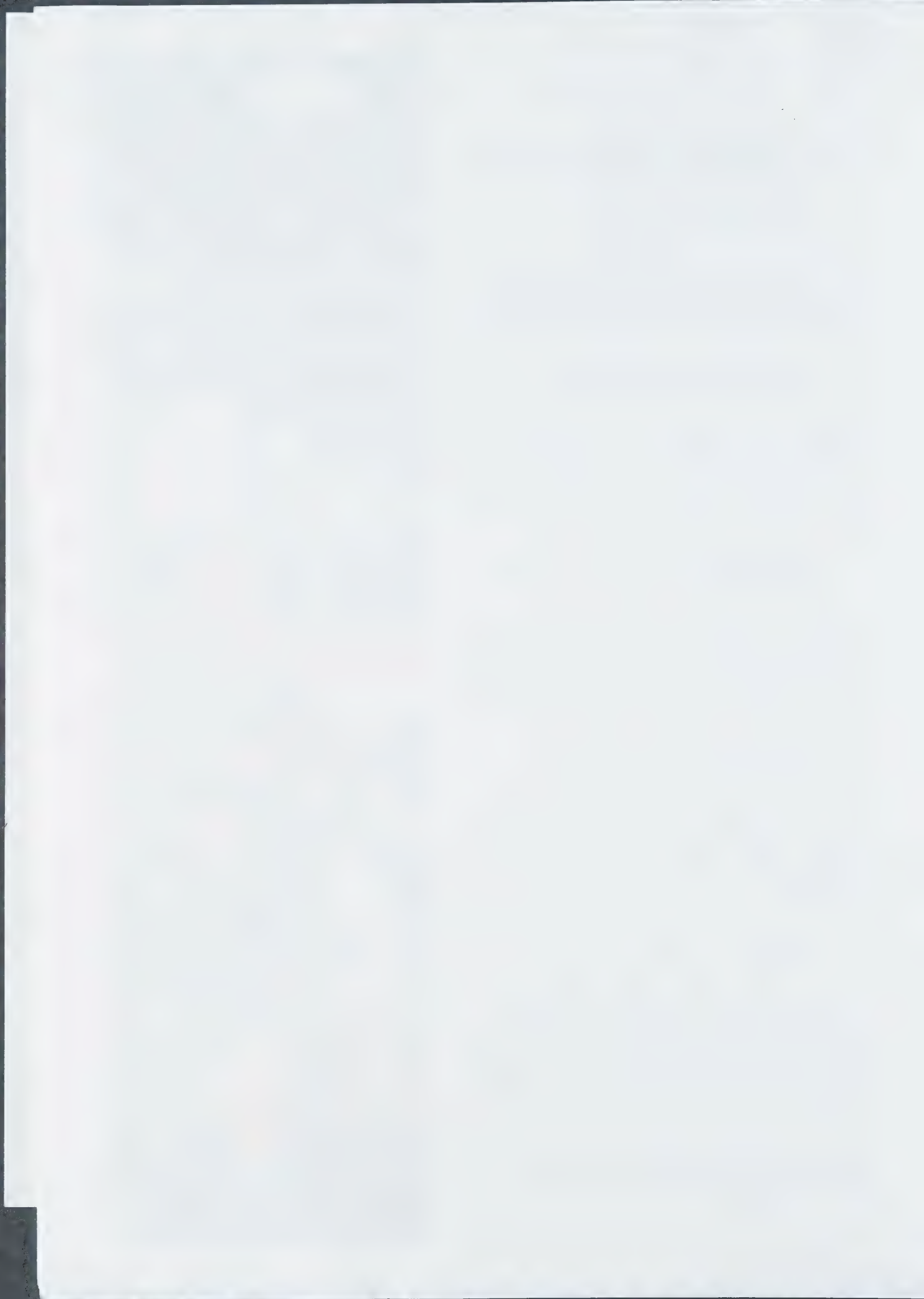
5) **Nuclear Power Plant Safety - What's the Problem?**

John Collier, *Nuclear Electric plc, UK*

A significant proportion of our electricity is generated by thermonuclear reactions. The dangers attached to these processes and the radioactive products are well known and publicised. Much less well known are the measures taken to ensure that the highest levels of safety are realised in practice.

For further information contact:- The Vega Science Trust, Vega, Kingston Road, Lewes, Sussex, BN7 3NB, UK. (Tel 44 (0)1 273 678129)





PROGRAMMES

The Origin of Life

John Maynard Smith, *University of Sussex*

The essential feature of life is heredity - the property that like begets like. DNA, stores and transmits genetic information, and proteins do all the work. They are connected by the genetic code, whereby DNA specifies what kinds of proteins can be made. This process of translation is well understood, but it is far too complicated to have arisen by chance in the primitive oceans, yet all life we know depends upon it. How can this apparent paradox be resolved?

The Chemistry of the Interstellar Medium as Revealed by Spectroscopy

William Klemperer, *Harvard University, USA*

Radioastronomical observations of our galaxy have revealed hordes of molecules in the interstellar medium. Indeed the mass of molecules residing between the stars is equivalent to that of 1000 million suns - so the chemistry involved is slightly more important than that on Earth! Some very large polyatomic species have been found and to gain a deeper insight into the molecular composition of the interstellar medium, models of chemical synthesis appropriate to the cold, low density conditions that obtain are required. These models explain how totally abiotic reactions can produce complex molecules on this enormous scale. The reactions involve cosmic ray induced primary ionisation followed by extremely fast reactions between ions and molecules which result in the high abundance of complex organic compounds. The key to all this is the chemistry of the helium ion!

C₆₀ Buckminsterfullerene, the Celestial Sphere that Fell to Earth

Harold Kroto, *University of Sussex, Brighton*

In 1985 C₆₀ Buckminsterfullerene (the third allotropic form of carbon) was discovered as a whisper in a helium wind which swept up a superhot plasma created by a laser focused onto a graphite surface. This experiment, designed to unravel the carbon chemistry in Red Giant Stars, paradoxically brought the Fullerenes, a family of pure carbon cage molecules, down to Earth. The prospects for the development of new 21st Century Materials are highly exciting. The molecule's elegant symmetry appeals to our Renaissance sensibilities and it is highly gratifying that children are so fascinated by the molecule. There is food for thought in the fact that a vast new round world of carbon chemistry and materials science was discovered as a consequence of a fundamental curiosity about the rôle of carbon in space and stars - rather than applied research on carbon. The discovery is a timely warning of the serious limitations inherent in the applied research strategies now smothering fundamental research in the UK.

Electron Waves Unveil the Microcosmos

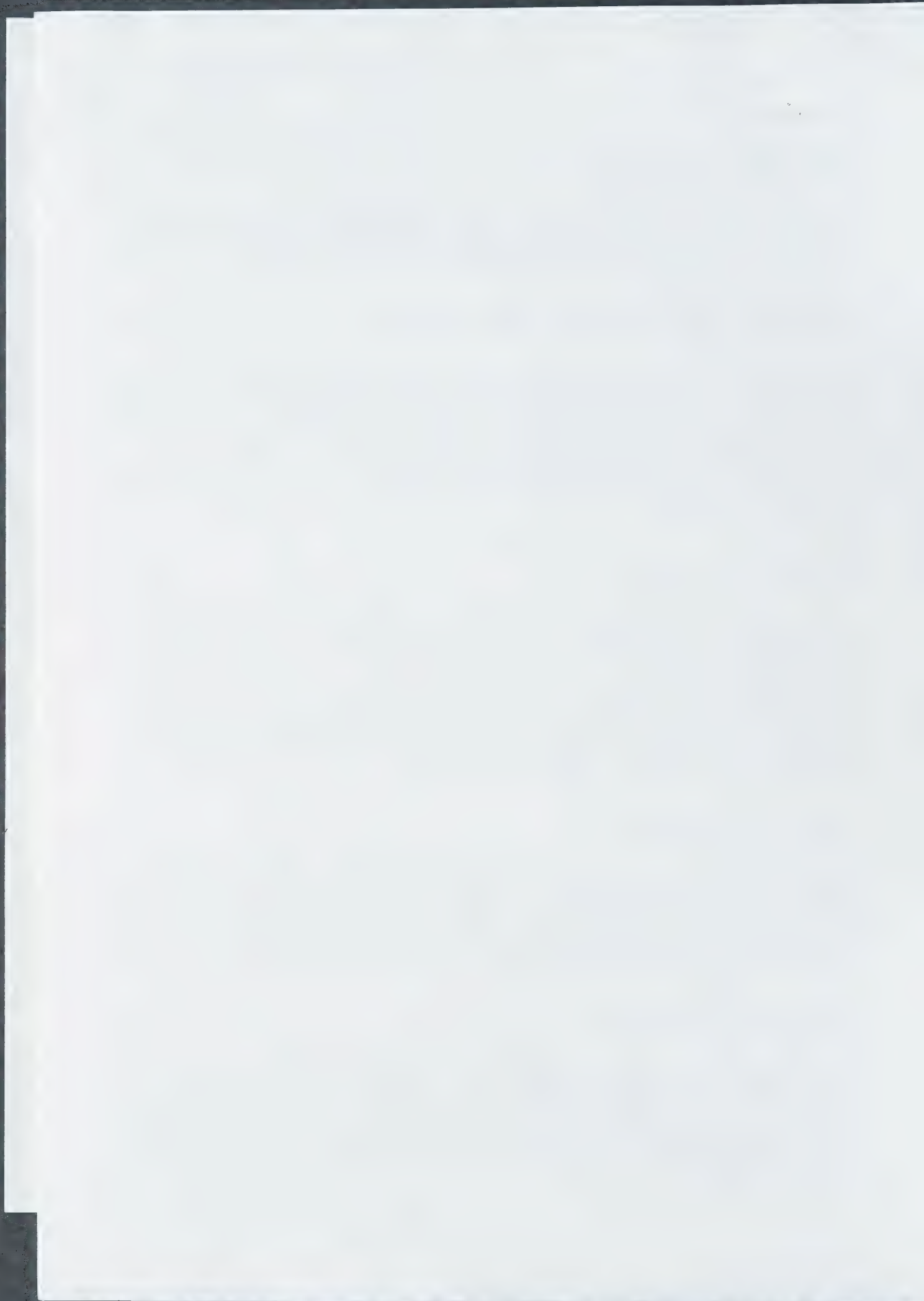
Akira Tonomura, *Hitachi Ltd, Japan*

Almost everyone is familiar with the famous experiment performed by Michael Faraday in which iron filings, when sprinkled over a magnet, organise so that lines of force between the poles become apparent. The lecture explains how, with the aid of holographic electron microscopy, we can actually "see" lines of force *inside* the magnet. The studies reveal a fascinating dynamic world in which the lines of force form vortices (quantised bundles) that hop and swirl (much like tornadoes do in the atmosphere) inside a superconductor! The amazing scenery of the microcosmos is unveiled by new state-of-the-art techniques which essentially sprinkles electrons (rather than iron filings) through the magnetic materials.

Nuclear Power Plant Safety - What's the Problem?

John Collier, *Nuclear Electric plc, UK*

The source of heat in nuclear reactors is not exothermic chemical reactions but exothermic nuclear reactions caused by neutron-nucleus collisions in controlled profusion. The dangers attached to this process and its radioactive products are well known and publicised. Much less well known and appreciated are the means by which safety is assured. The lecturer uses models which simulate reactor behaviour to illustrate how safety is realised in practice. The approach to safety is developed with the aid of benchtop demonstrations of the main principles. Overall the intent is to emphasise the essential simplicity of the matter and the high level of safety that has been achieved.



Centre for Common Jewish Studies

Rembrandt and the Jews



The Bible through Dutch Eyes

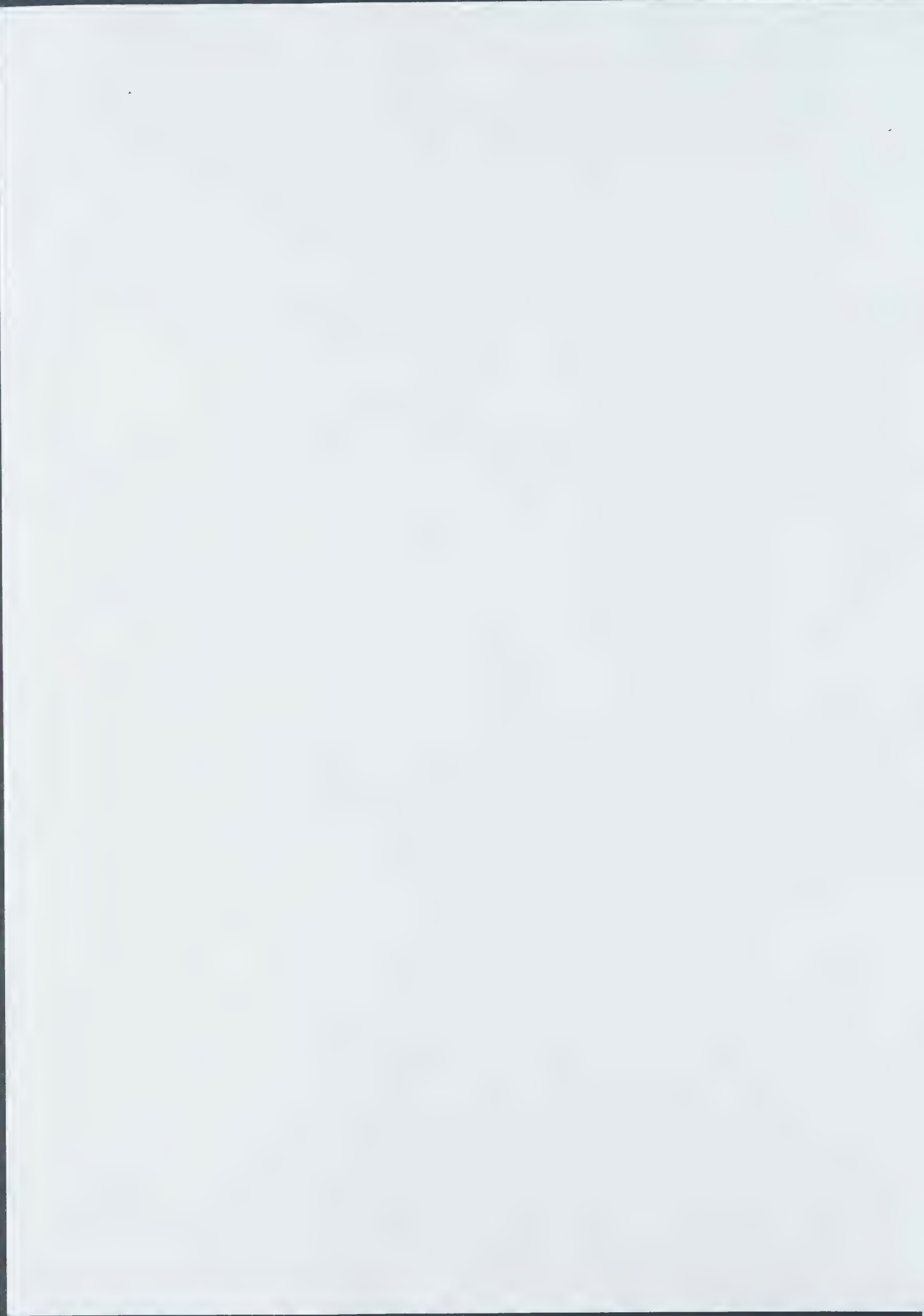
An illustrated lecture by

Dr Alfred Bader

Admission Free

**in the Meeting House at 5.15 pm
on Thursday 23rd November**

Dr Bader is a research chemist and art collector from Milwaukee who has made a special study of 17th-century Dutch painting.



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

17 November 1995

Dr A R Bader
White Gables
2A Holmesdale Road
Bexhill-on-Sea
TN39 3QE

Dear Isobel and Alfred

VISIT TO SUSSEX - 23 NOVEMBER

Thank you very much for your telephone call. When you arrive on Thursday (ca 3.30) please come to Jean Hudson's office in Stage 1 of Molecular Sciences (room 1R204). We have arranged for you to take tea at 3.45 with those recipients of the Bader Prize who are currently here; (name and year of receipt noted below).

James Duffy and Michelle Hopton	1995
Stephen Baker and Ivan Marziano	1994
Marco Corradi and Sheena Whyte	1993
Bernard Starkmann	1992

Thomas Müller, the new postdoctoral fellow working on fullerenes and part-funded through your generosity, will also be present.

I will take you to meet Edward Timms (Arts A128) by 4.30, for additional tea (!). He says Alfred's slides can be loaded in the Meeting House at 5.

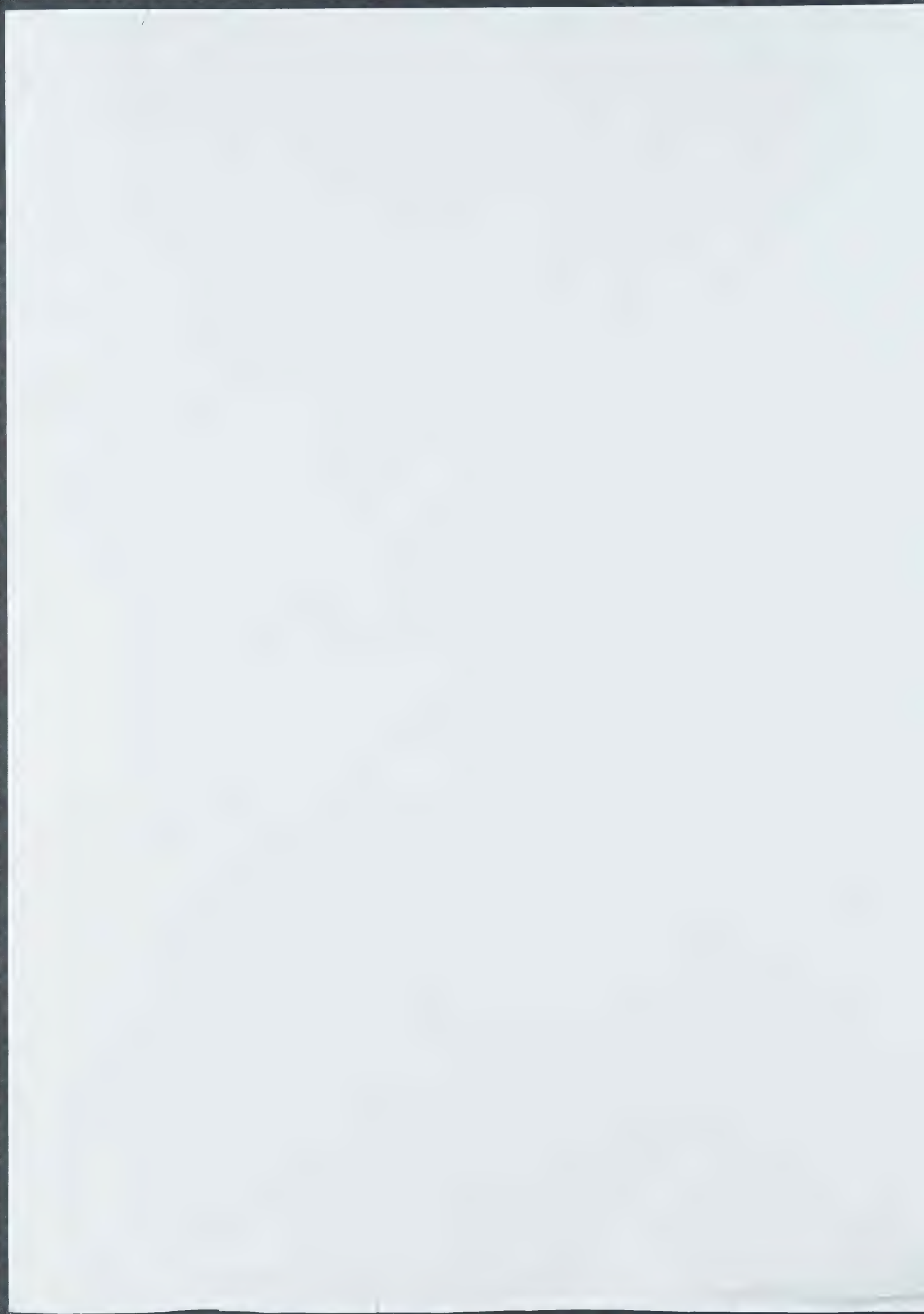
At this stage I must ask you to excuse me from missing the lecture on this occasion. My father-in-law (89) passed away in early November and my mother-in-law and wife need much support at present, so I do need to leave the University by 5 in order to get to Storrington in reasonable time during these long winter evenings.

Looking forward very much to meeting you both again on Thursday.

As always

A handwritten signature in cursive script that reads "David".

D R M Walton





Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

October 11, 1996

Professor Edward Timms
School of Chemistry and Molecular Sciences
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Professor Timms:

I much look forward to giving a lecture in your Chemistry Department on Monday, November 25th and then hope to have a chance to chat with you also.

Of course, I was delighted to learn that my old friend, Sir Harry Croto, has won the Nobel Prize in Chemistry.

Enclosed please find my gift for this year for your program.

You may recall that I discussed with you where an article written about anti-Semitism among chemists in Austria might best be published. A copy of that article, which is now close to finished, is enclosed. I would very much appreciate your comments when we meet.

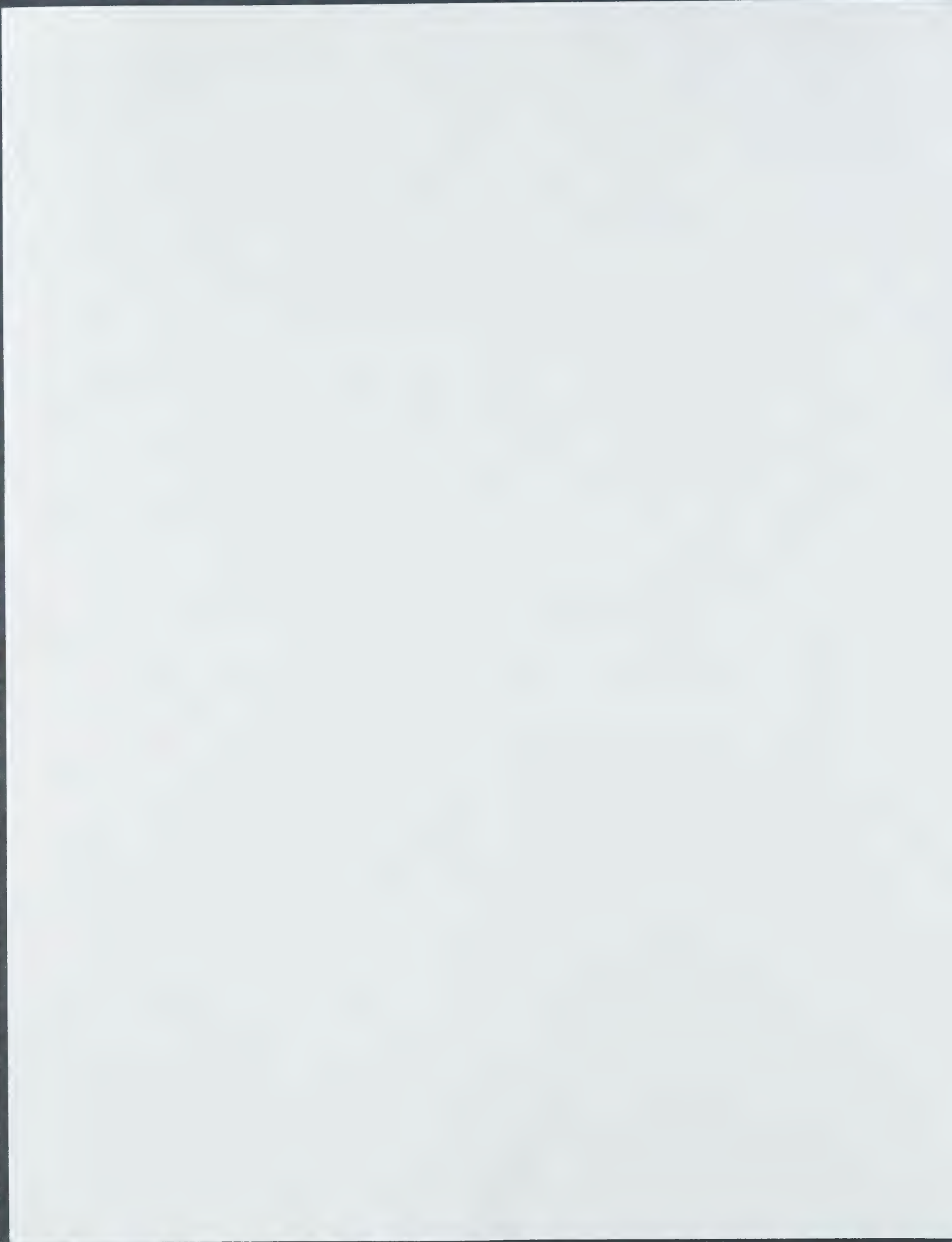
With all good wishes, I remain,

Yours sincerely,

AB/cw

Enclosures

bc: Dr. Robert Rosner
Ralph Emanuel





Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

October 11, 1996

Professor Edward Timms
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Professor Timms:

I much look forward to giving a lecture in your Chemistry Department on Monday, November 25th and then hope to have a chance to chat with you also.

Of course, I was delighted to learn that my old friend, Sir Harry Croto, has won the Nobel Prize in Chemistry.

Enclosed please find my gift for this year for your program.

You may recall that I discussed with you where an article written about anti-Semitism among chemists in Austria might best be published. A copy of that article, which is now close to finished, is enclosed. I would very much appreciate your comments when we meet.

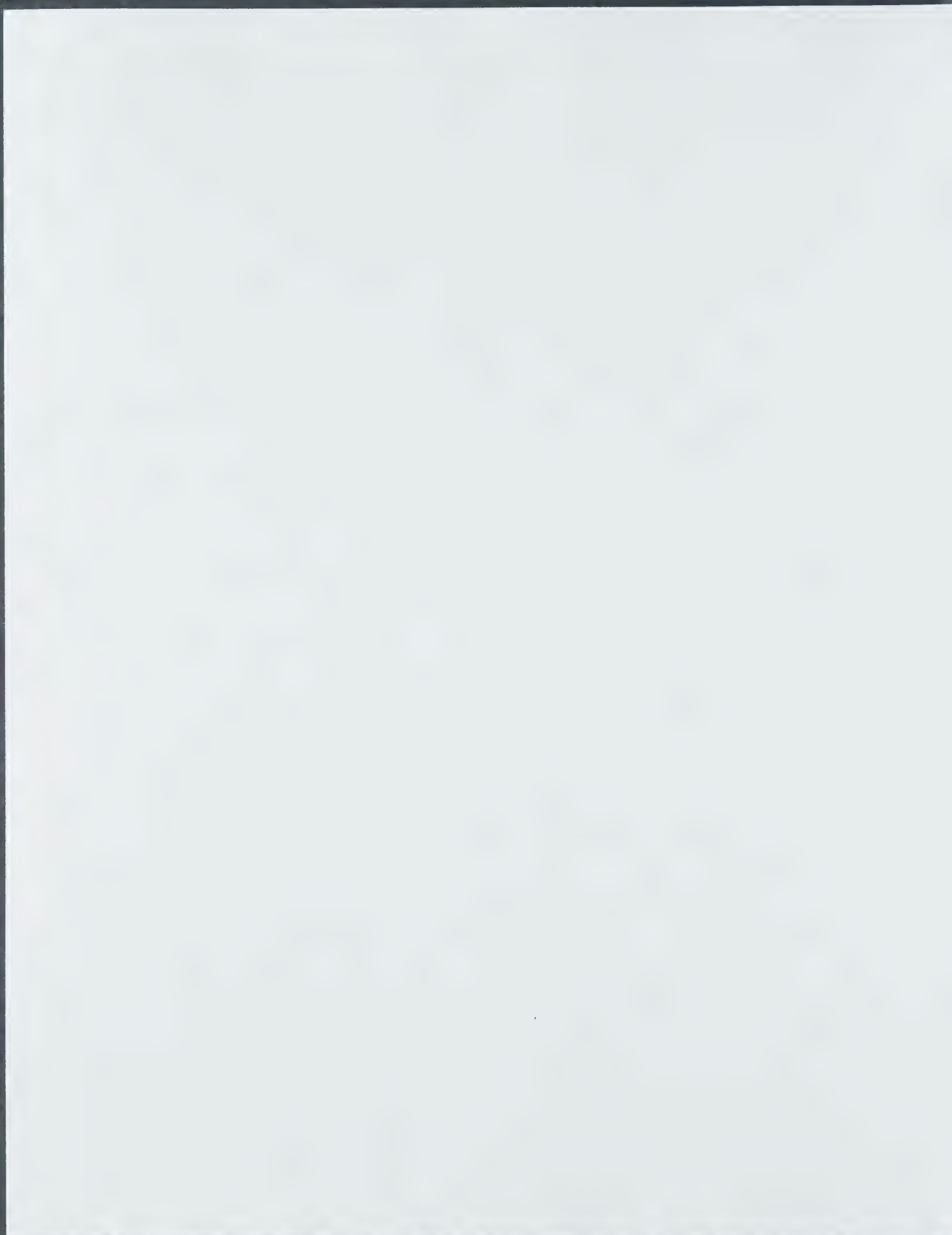
With all good wishes, I remain,

Yours sincerely,

AB/cw

Enclosures

bc: Dr. Robert Rosner
Ralph Emanuel





Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

December 27, 1995

Dr. David Walton
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear David:

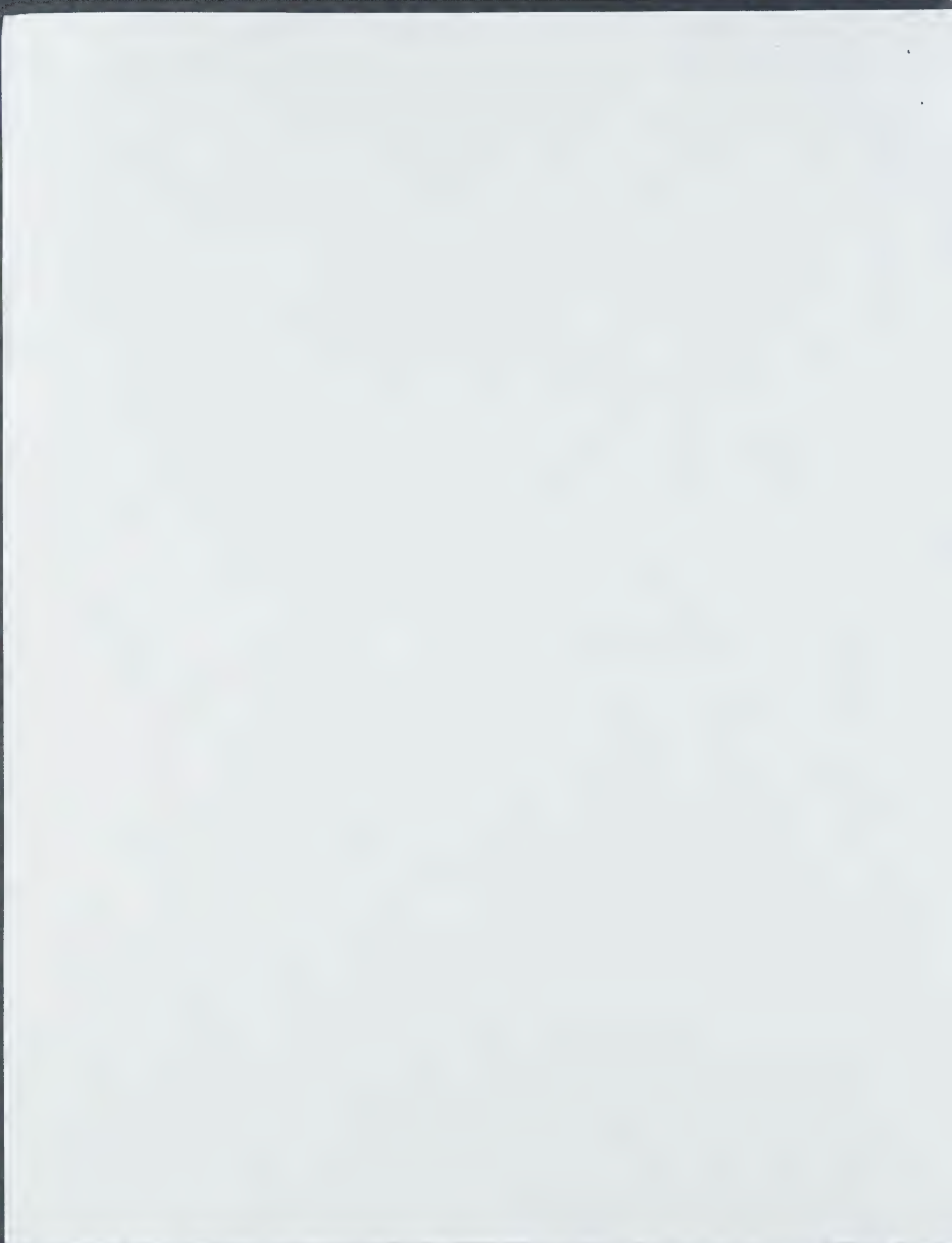
Please don't mind that a very busy schedule in Bexhill has delayed my responding to your kind letter of November 24th.

Needless to say, I will be truly happy to be able to serve as one of your referees for your c.v.

With all good wishes of the season, I remain,

Yours sincerely,

AB/cw



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

24 November 1995

Dr A R Bader
White Gables
2A Holmesdale Road
Bexhill-on-Sea
TN39 3QE

Dear Alfred

I was very pleased to see Isobel and you yesterday, but sorry that our time together was so short. It was good that the recipients of the Bader Award could meet you at last and I do hope the afternoon was not too rushed for you, in advance of your lecture. I noticed various Chemists proceeding in the direction of the Meeting House as I was about to leave Campus, which augured well.

Our Administration advises that £1,000,000 is needed endow a Chair at Sussex in perpetuity. Alternatively £60,000-£80,000 per annum is the approximate cost.

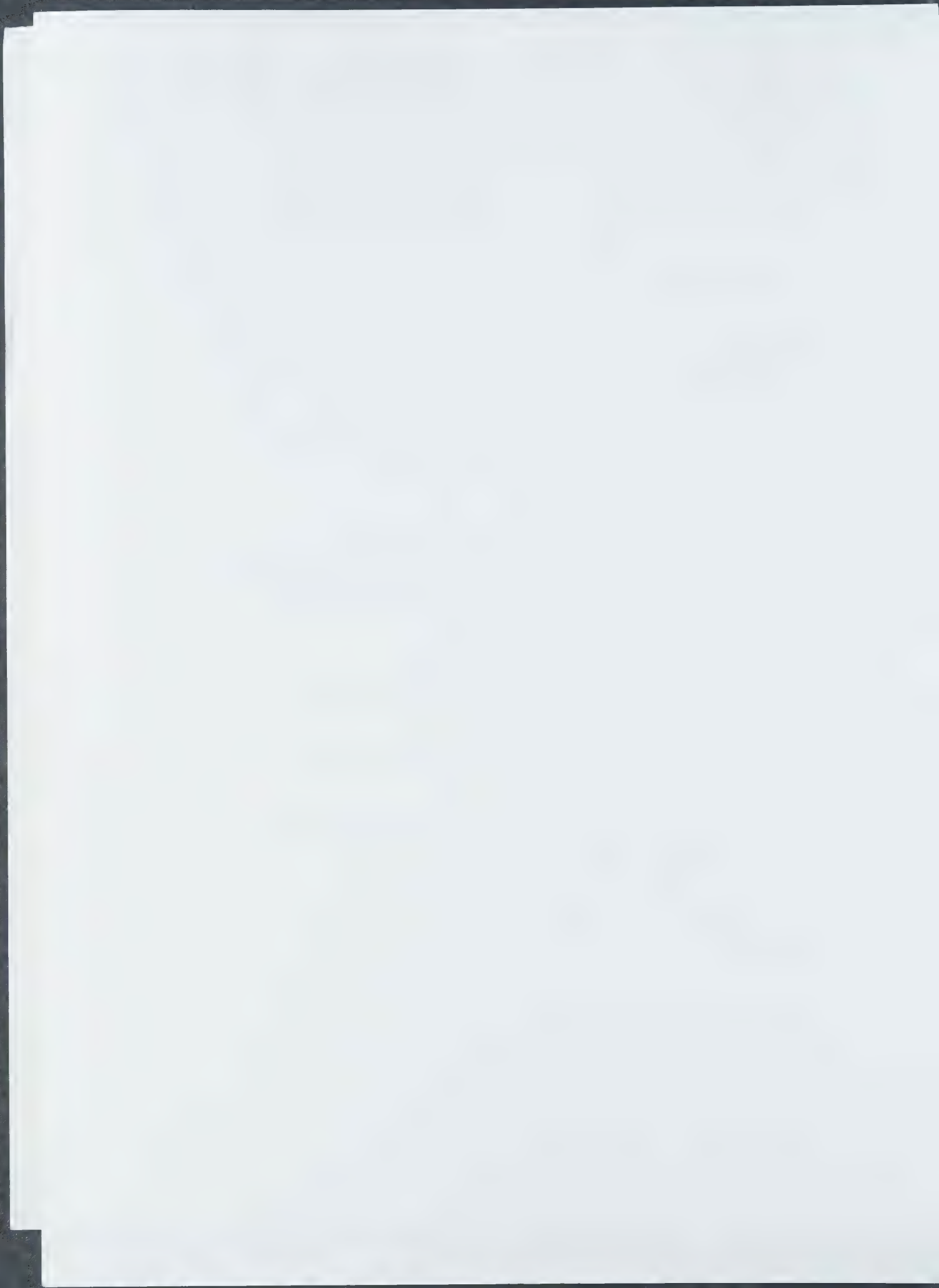
I have one favour to ask of you. From time to time I am asked for my c.v. and I would like to cite you as one of my referees. If you would be prepared to act in this way I will send you my c.v. Thank you!

Should we not meet again before your return to Milwaukee, may I take this opportunity to wish you peace and prosperity for the year ahead. I will send you an appropriate newspaper cutting on 01 January...

With every good wish to you both.

As always

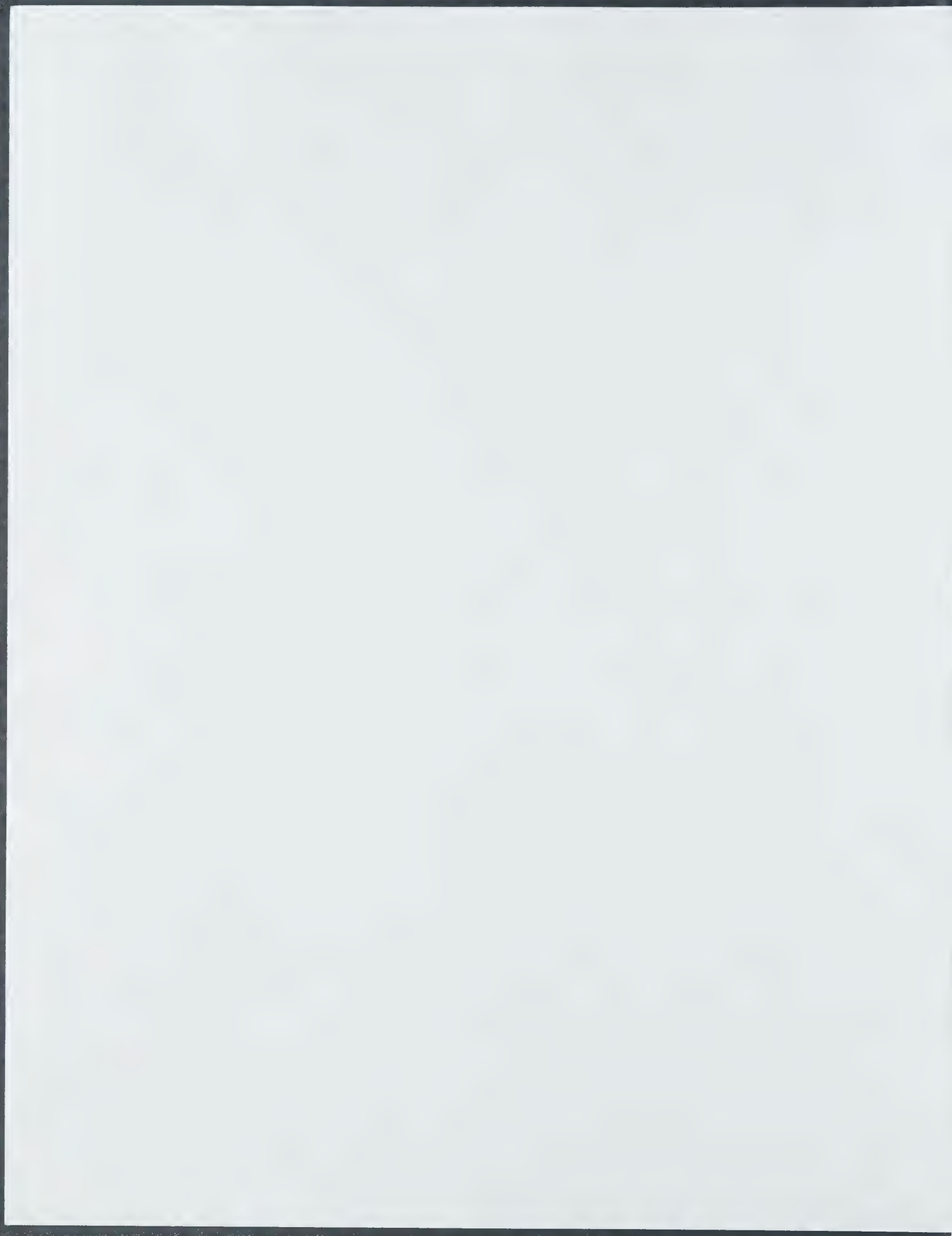
A handwritten signature in cursive script, appearing to read "David", with a long horizontal line extending to the right.



Sussex Fullerene Programme (1990-)

Kosmas Prassides	Roger Taylor
David Walton	Paul Birkett
Adam Darwish	Jonathan Crane
Jonathan Hare	Tony Avent
Hsu Wen Kuang	Peter Hitchcock
Wyn Locke	Ala'a Abdul Sada
Mauricio Terrones	Morinobu Endo *
Mohamed Meidine	Tony Cheetham *
Amit Sarkar	Umberto Terrones *
Doug Reid	Osman Osman
Brian O'Donovan	Andy Caffyn
Colin Crowley	Martin van Wijnkoop
Huang Shaoming	Osamu Ohashi
Thomas Müller	Zhang Jin Ping

Support: Royal Society, SERC, British Gas, BP, ICI, Zeneca, Alfred Bader.



UNIVERSITY OF

SUSSEX
AT BRIGHTON**The Chemistry Laboratory**CPBS Building
University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755

Direct Line: (01273) 678602

Fax: (01273) 677196

E-Mail: R.Taylor@sussex.ac.uk

FAX Message**Date:** 13th November, 1996**To:** Dr Alfred Bader, 2961 North Shepard Avenue, Milwaukee, Wisconsin, 53211, USA**From:** Dr Roger Taylor**FAX NO. 001 414 277 0709**

Dear Dr Bader,

I write in connection with the colloquium entitled "Archibald Scott Couper and Josef Loschmidt: Out of the Shadows" that you kindly offered to give here on 25th November. I hope that everything is in order and that you will be able to be with us then.

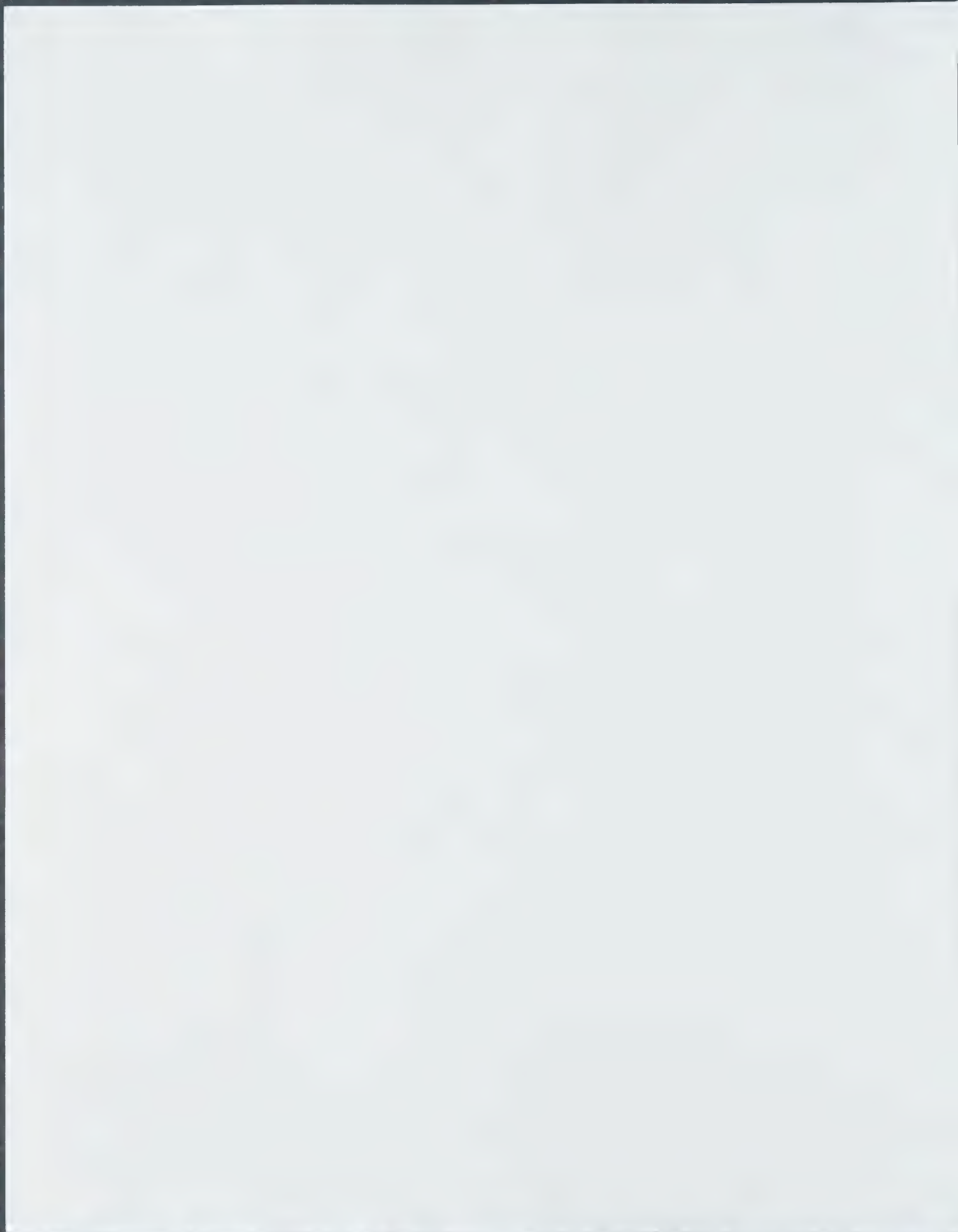
I mentioned in my letter of 8th September last year, that the colloquia begin at 4.15 pm. Due to merging of our schools of chemistry and physics, timetabling considerations have caused us to change the colloquium times to 5 pm. If however, this causes any problems for you, I will endeavour to make arrangements for your talk to be at 4.15 pm as originally stated.

It is customary for us to entertain our speakers to dinner after their talk, and we would be very pleased if you could join us on this occasion. Likewise, if you require overnight accommodation, this can be arranged as well. Alternatively, we can arrange transport for you to Bexhill if that is what you would prefer.

I look forward to hearing from you shortly

Yours sincerely

A handwritten signature in cursive script that reads "Roger Taylor".





Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

July 28, 1997

Vice-Chancellor Gordon Conway
Sussex House
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Professor Conway:

My old friend, Dr. David Walton has mentioned in passing that he is considering the possibility of taking early retirement.

I was aghast at this for two reasons:

(1) David is only 60 and in his chemical work has gone from strength to strength. I think that Sir Harry Kroto will be the first to confirm that a good deal of credit for the fullerene work must go to David. And before that, David was at the cutting edge of acetylene and silylation chemistry.

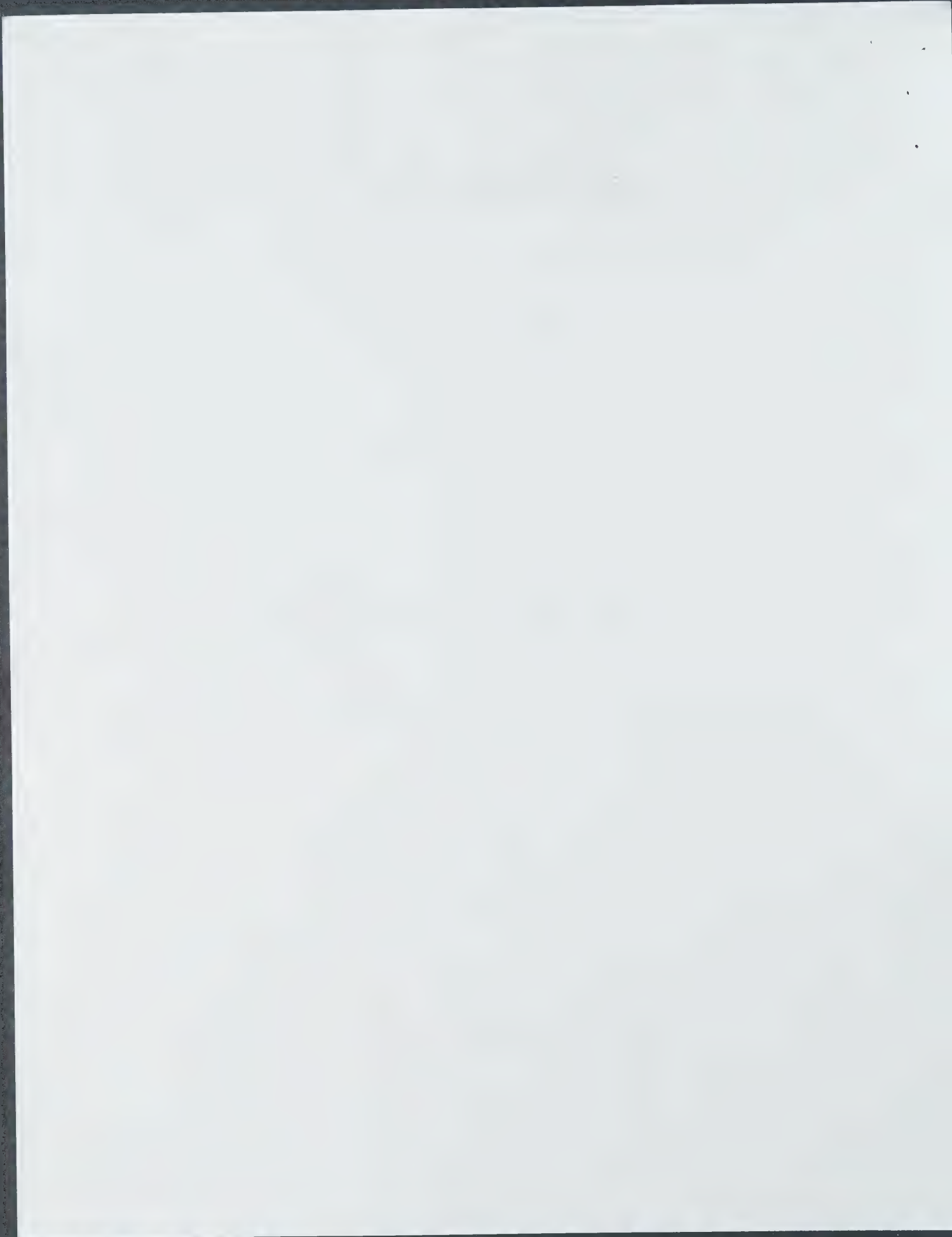
(2) I don't know of any chemist in Britain who singlehandedly has done as much to help chemists in another country as has David. Were that other country a Western country, his retirement would not impede his great help. I am 73 and was thrown out of the company I founded and yet can help chemists today as much as I ever did. But Sri Lanka is not a Western country. There formal retirement - even if David can continue much of his good work here - would be looked at very negatively - a great loss to the chemists whom David has helped so much.

Hence I would like to impose on you and ask you to do your very best to dissuade David from making the wrong decision.

With best personal regards I remain,

Yours sincerely,

AB/nik



10 LOCKITT WAY
KINGSTON
LEWES
E. SUSSEX BN7 3L9

18 July '97

Dear Alfred,

The vice-chancellor is GORDON CONWAY
and his address is:

Sussex House
University of Sussex
Falmer
BRIGHTON BN1 ...

I am uncertain about the last three
characters for the post code, but if
you still plan to send me a draft
of the letter I can add the details
at that stage.

I'm truly grateful for your
moral support in these trying
times. Thank you for agreeing to

wrote to the V-C on my behalf.

Jan ev.

David

Gordon

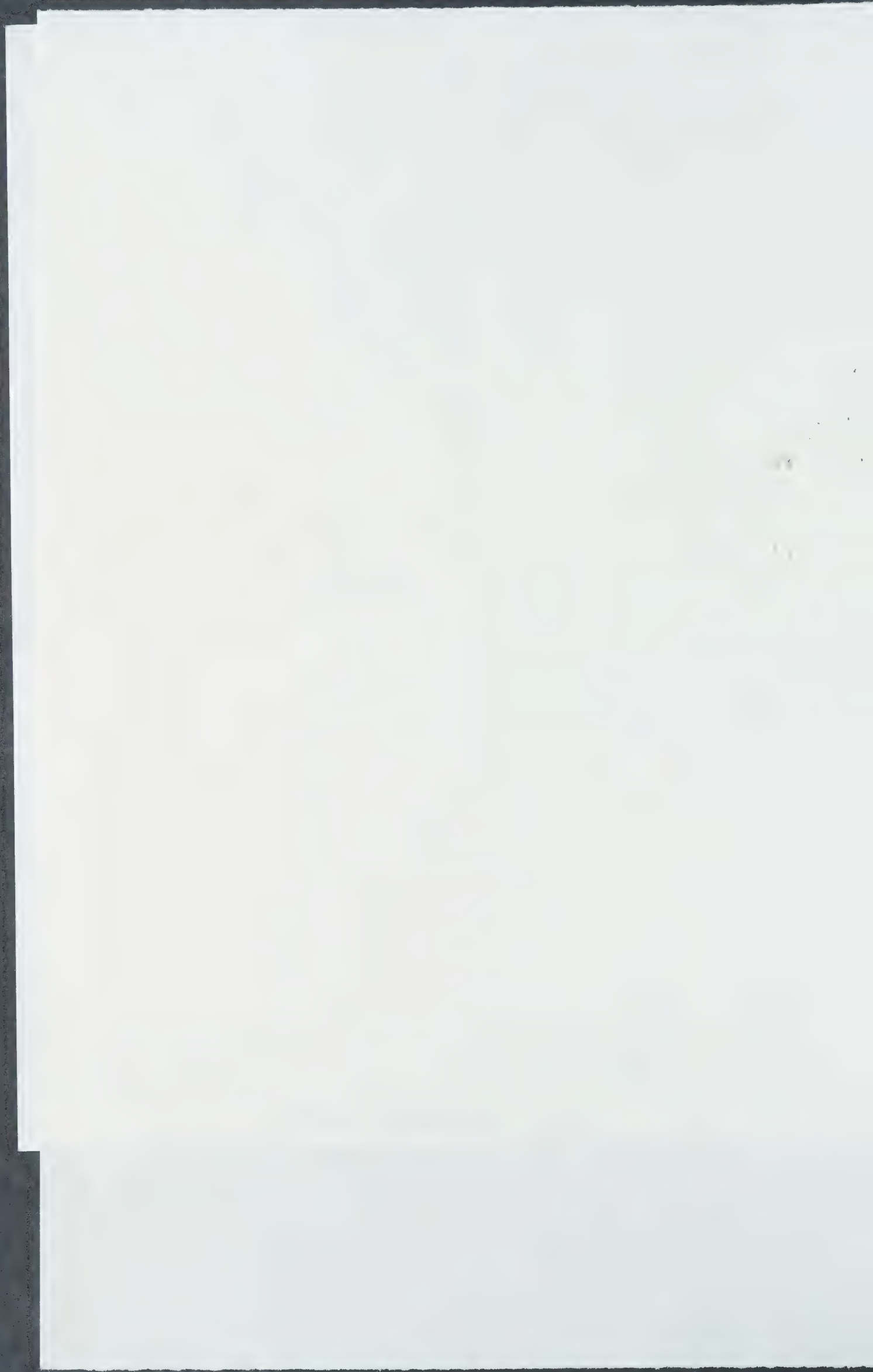
David Waller

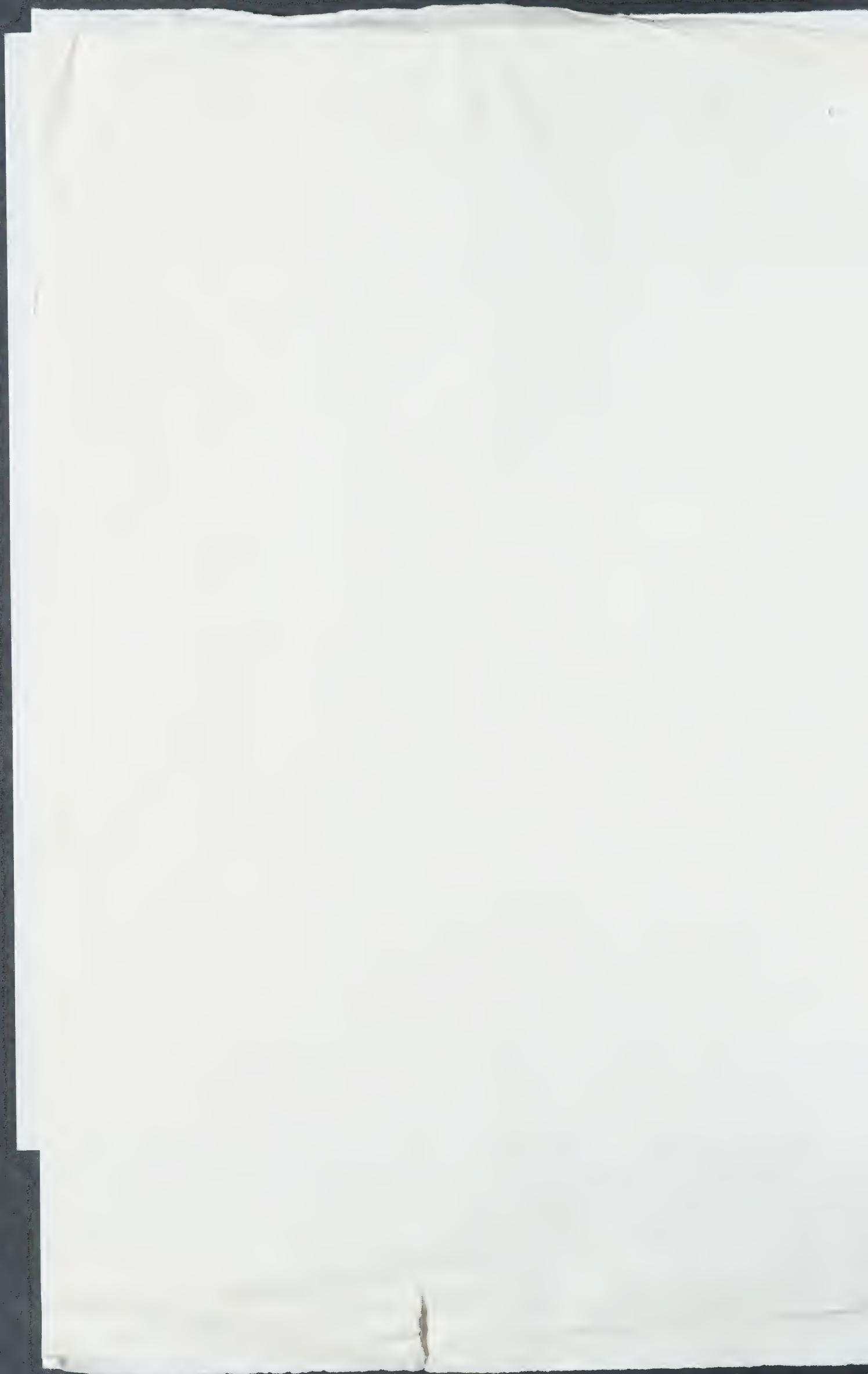
10 Lockitt Way

Kington, Lewis

E Sussex

BN7 3LG





DR. ALFRED BADER
WHITE GABLES
2A HOLMESDALE ROAD
BEXHILL-ON-SEA
EAST SUSSEX TN39 3QE
TEL: 01424 22223

Dr. David Wallon
Department of Chemistry
University of Sussex

By fax
01273 677196

Dear David

I am of course deeply worried
by the second paragraph of your letter
of July 15. How pitty can people get?

Of course we enjoyed our
stay with Thomas Müller in Munich

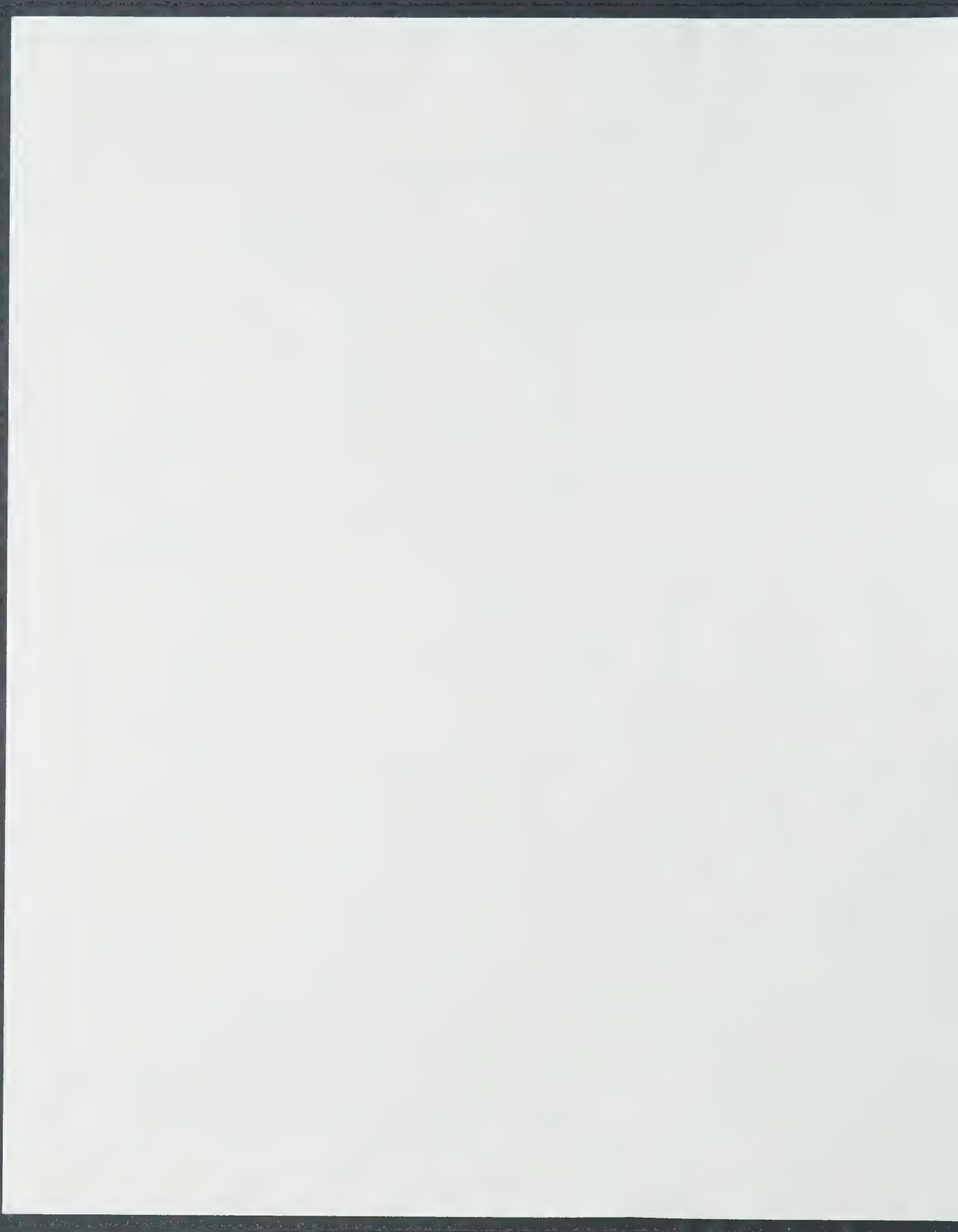
I hope that you received the
two Moravian pamphlets I mailed you
on Monday

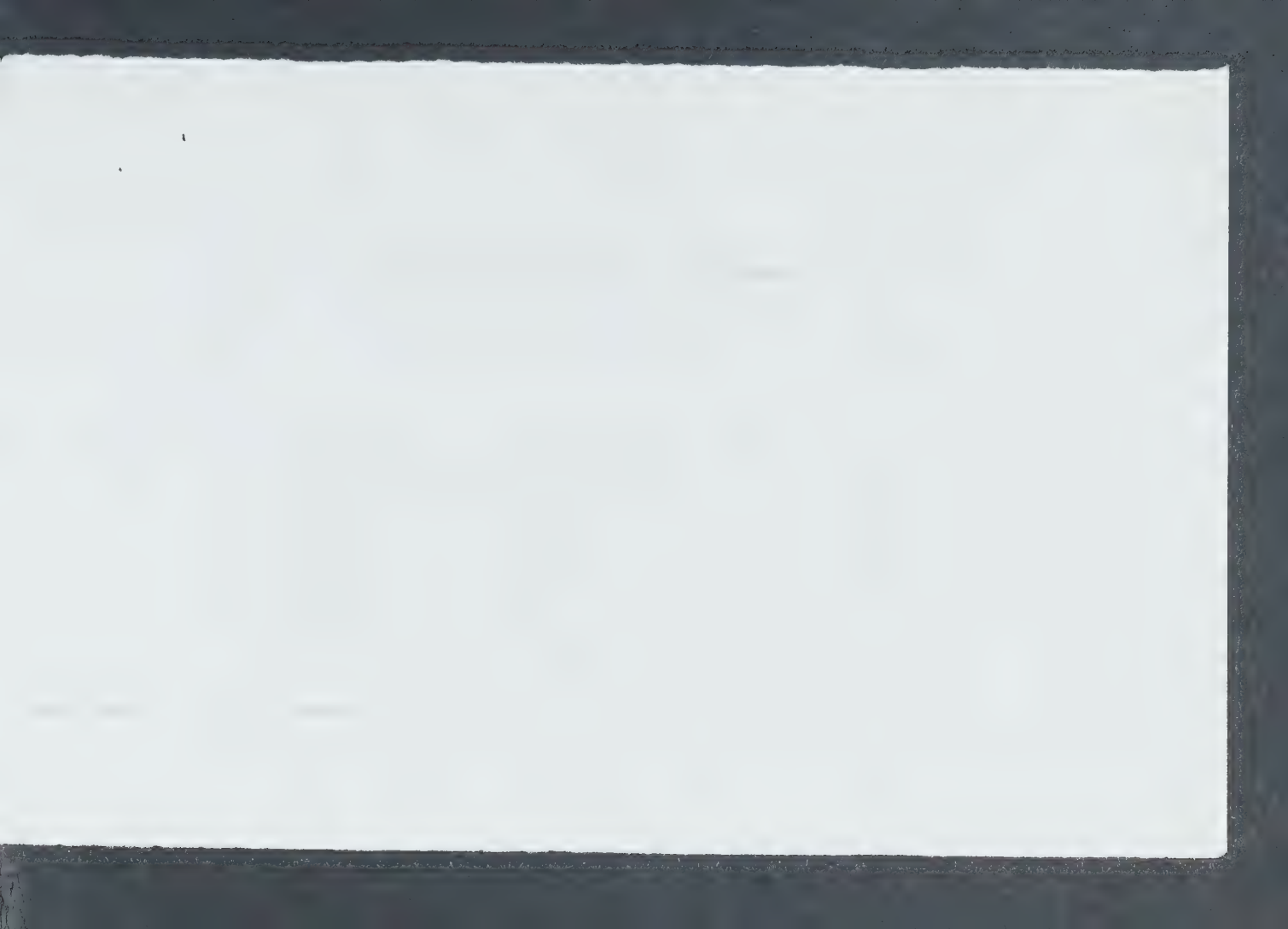
Best wishes,

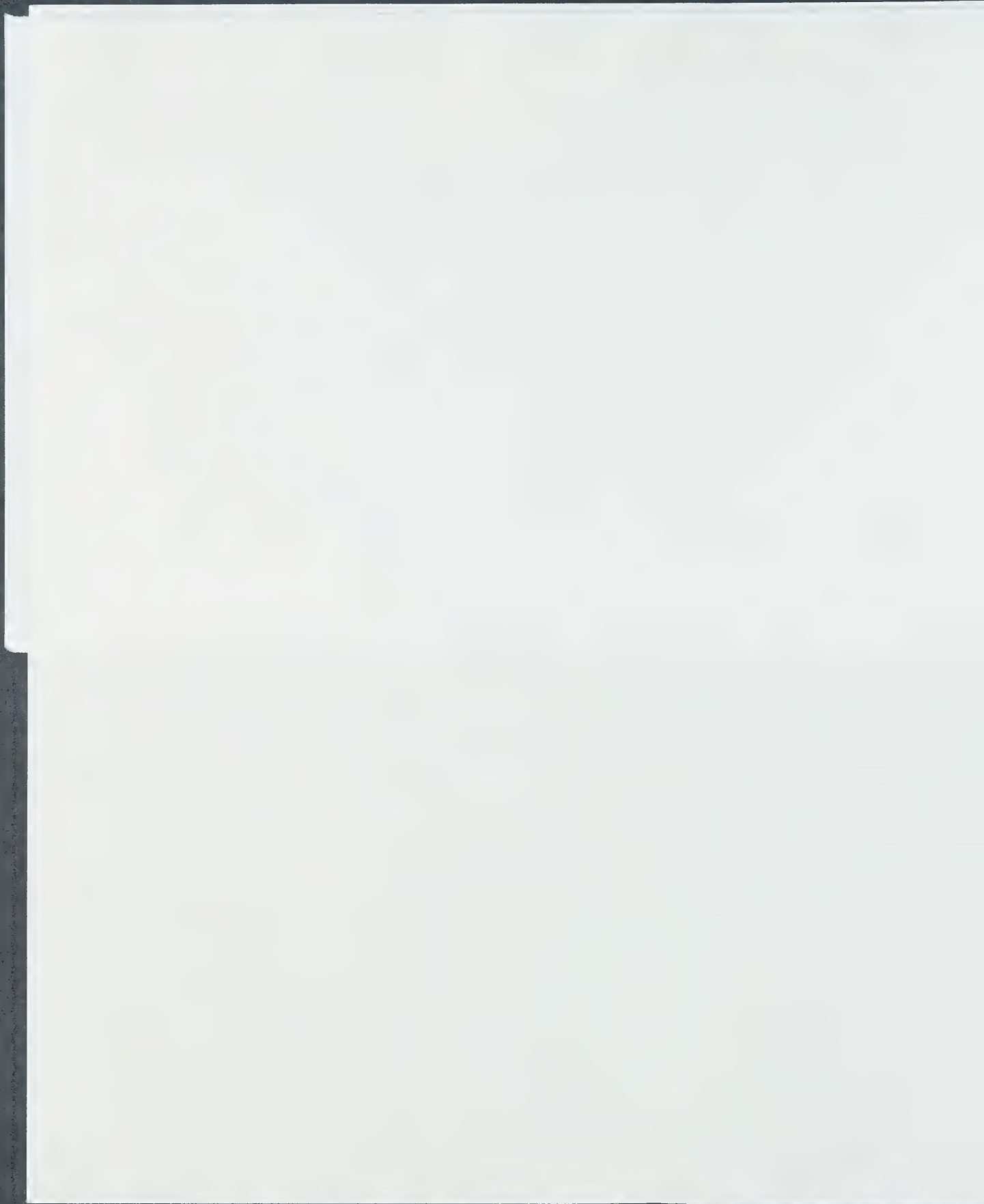
As Always

Alfred

July 17 97







UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry, Physics
and Environmental Science

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Chemistry Fax: (01273) 677196
Physics Fax: (01273) 678097

15 July 1997

Dr A Bader
2A Holmesdale Road
Bexhill-on-Sea
TN39 3QE

A handwritten signature in cursive script, appearing to read "David".

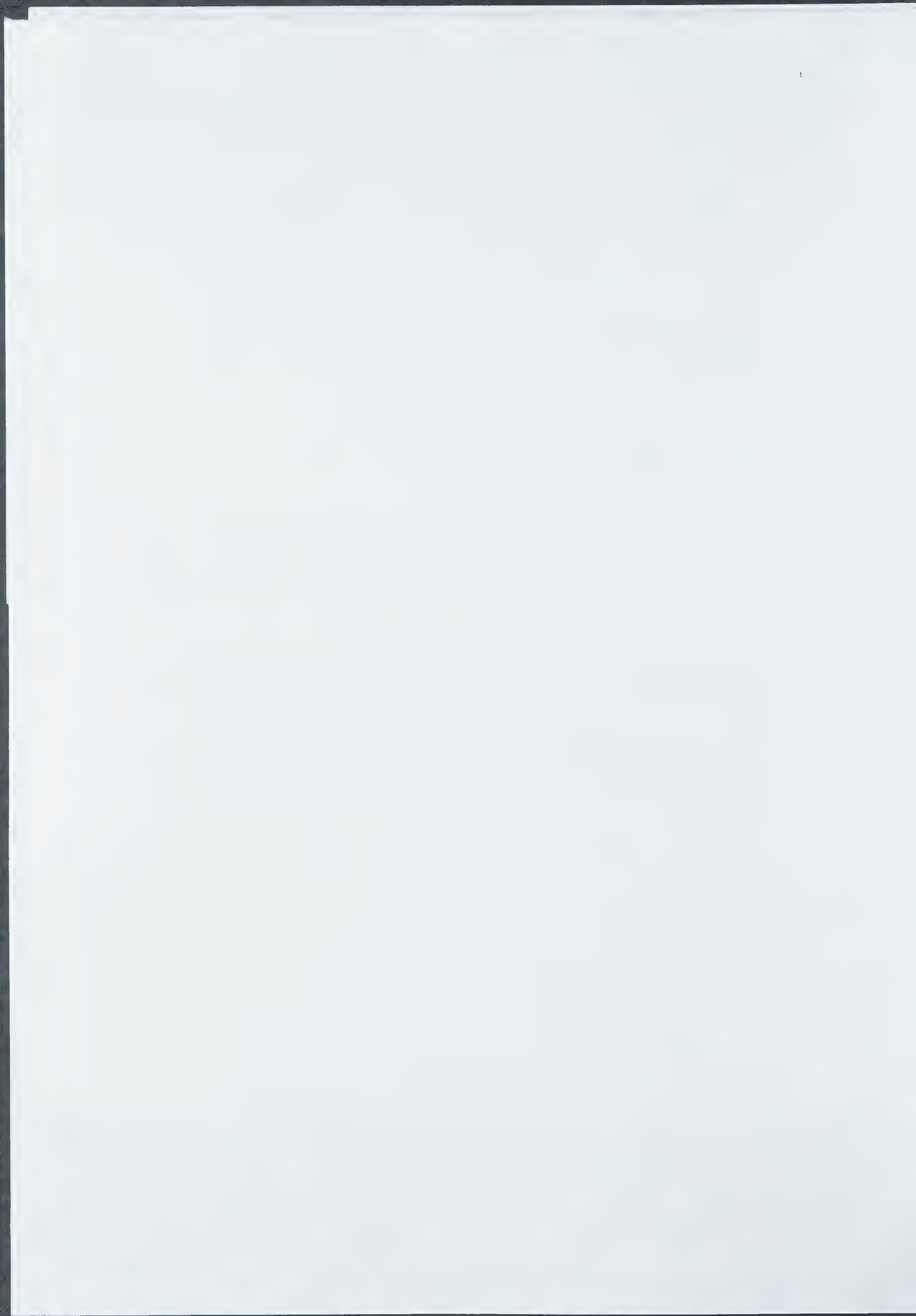
Thank you very much for your telephone calls. I am so sorry that we will not be able to meet during your stay in Bexhill. I am sure we will do so in November. Thomas Müller was most enthusiastic about your sojourn in Munich. I hope you enjoyed it too. Herewith a reprint of a paper covering the work he carried out here, thanks to your generosity.

The atmosphere here these days is decidedly unpleasant. The University is in financial difficulties, particularly as regards the combined new School of Chemistry and Physics. The powers-that-be have reassured everyone that compulsory redundancies are not on the cards - yet - but virtually everyone over 60 is being strongly encouraged to take early retirement. That includes me. On the positive side we have just heard that the Wolfson Foundation has granted the Fullerene Team £100,000 to renovate the top floor of the old AFRC building. This will provide us with a proper lab.

I will keep in touch. With every good wish to Isobel and to you.

As always

A handwritten signature in cursive script, appearing to read "David".



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The Chemistry Laboratory

CPES Building
University of Sussex
Falmer, Brighton BN1 9QJ
Telephone: (01273) 606755
Direct Line: (01273) 678602
Fax: (01273) 677196
EMail: R.Taylor@sussex.ac.uk

FAX Message

Date: 13th November, 1996

To: Dr Alfred Bader, 2961 North Shepard Avenue, Milwaukee, Wisconsin, 53211, USA

From: Dr Roger Taylor

FAX NO. 001 414 277 0709

Dear Dr Bader,

I write in connection with the colloquium entitled "Archibald Scott Couper and Josef Loschmidt: Out of the Shadows" that you kindly offered to give here on 25th November. I hope that everything is in order and that you will be able to be with us then.

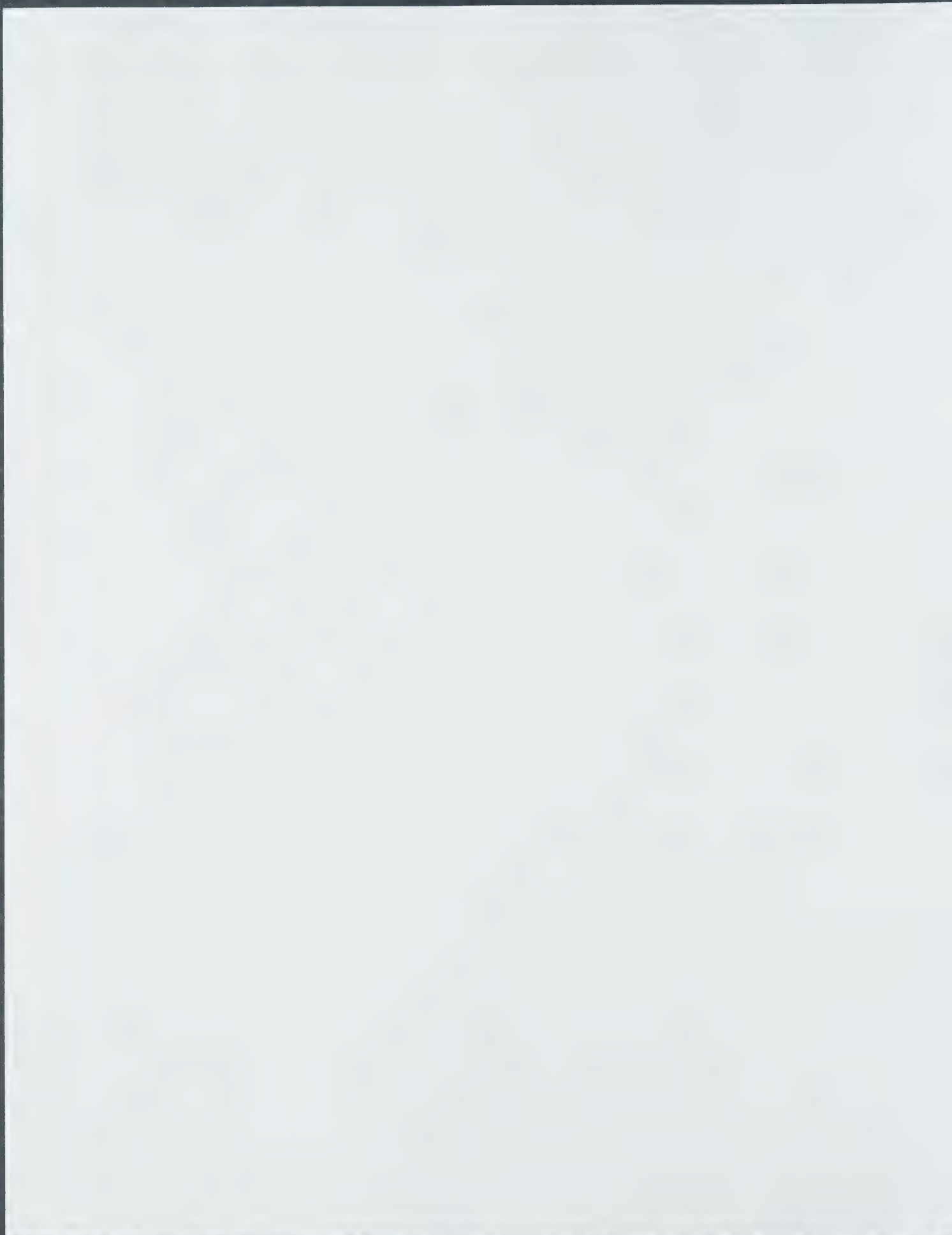
I mentioned in my letter of 8th September last year, that the colloquia begin at 4.15 pm. Due to merging of our schools of chemistry and physics, timetabling considerations have caused us to change the colloquium times to 5 pm. If however, this causes any problems for you, I will endeavour to make arrangements for your talk to be at 4.15 pm as originally stated.

It is customary for us to entertain our speakers to dinner after their talk, and we would be very pleased if you could join us on this occasion. Likewise, if you require overnight accommodation, this can be arranged as well. Alternatively, we can arrange transport for you to Bexhill if that is what you would prefer.

I look forward to hearing from you shortly

Yours sincerely

A handwritten signature in cursive script that reads "Roger Taylor".



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry, Physics
and Environmental Science**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Chemistry Fax: (01273) 677196
Physics Fax: (01273) 678097

11 August 1997

Dr A Bader
924 East Juneau, Suite 622
Milwaukee
WIS 53202
USA

Dear Alfred

Thank you for your 05 August letter and enclosure. Russians took a close interest in fullerenes post 1985 because of the pioneering work by Bochvar and Galpern (Moscow) who were the first to calculate the Hückel energy levels of C_{60} in the early 1970's. It is very difficult to assess how much State funding has been channelled into this subject but Russian contributions to Conferences since 1991 have been massive. I did not know about the Russian Chem. Revs. article and I am grateful to you for drawing my attention to it.

Our mass spec technician is still coping with the backlog of samples which awaited his return from holiday. I will convey the results of the samples to you as soon as possible.

With every good wish.

D R M Walton



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry, Physics
and Environmental Science**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Chemistry Fax: (01273) 677196
Physics Fax: (01273) 678097

01 August 1997

Dr Alfred Bader
924 East Juneau
Suite 622
Milwaukee
Wisconsin 53202
USA

Dear Alfred

Thank you very much for the copy of your 28 July letter and for the generous way you have written to Gordon Conway about my contributions to chemistry and to education in Sri Lanka. On the one hand I have no wish to retire, and have been given a verbal assurance by my Dean that, as things stand, I would not be made redundant were I to refuse one of the retirement packages currently on offer. On the other, the new School (CPES) is in dire financial straits and I (and others) are coming under considerable pressure to accept one of these packages, which consist of a pension plus re-engagement (one third salary) for three years. I am pressing for re-engagement for five years coupled with an agreement that I should not be disadvantaged in terms of working conditions were I to accept. I will keep you abreast of developments.

Our mass-spectrometer technician returns from holiday on 06 August. I will arrange for your samples to be examined as soon as possible after that date and let you know the outcome.

With kind regards and many thanks again for your valued support.

Yours sincerely

A handwritten signature in black ink, appearing to read 'D R M Walton', with a long horizontal stroke underneath.

D R M Walton





Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

October 20, 1997

Dr. David Walton
The School of Chemistry, Physics
and Environmental Science
University of Sussex
Falmer, Brighton BN1 9QJ
ENGLAND

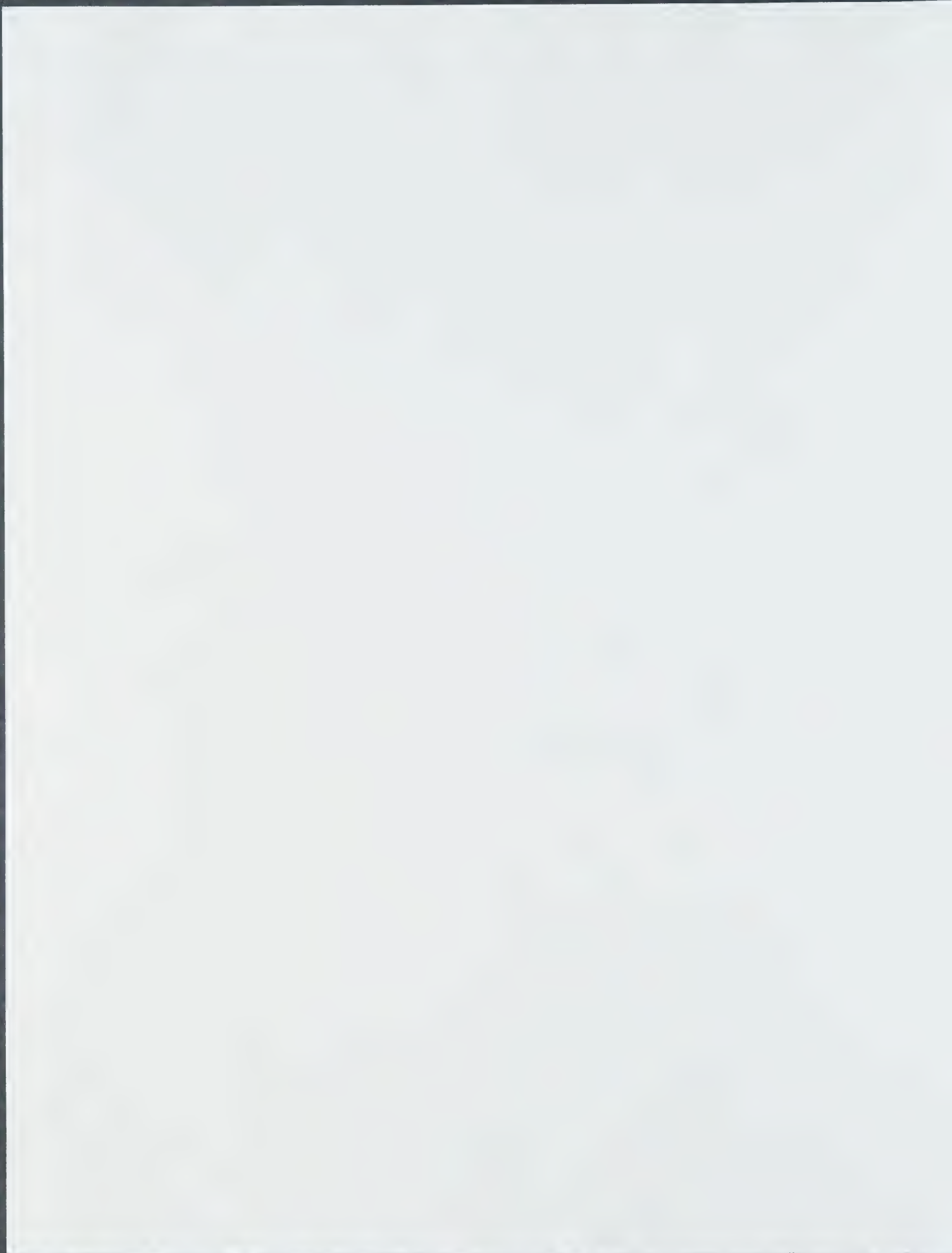
Dear David:

In response to your letter of October 13th, Isabel and I plan to arrive in Bexhill on November the 7th and then spend much of our time in London and Spain and perhaps, also, in Scotland.

The big London old master sales end on Friday, December the 5th and after that we will be in Bexhill most of the time, returning to Milwaukee on December 18th.

Best wishes,

AB/nik



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

06 September 1995

Dr Alfred Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211

Dear Alfred

Thank you very much for your 29 August letter, enclosures, and for confirming that you are prepared to contribute \$10,000.00 towards our fullerene program subject to the conditions stipulated in your letter.

There is still no news from either the Royal Society of Chemistry or from Prof Gregory (Royal Society). Harry Kroto is abroad at present; when he returns (16 September) I will review the position with him.

I spoke to Robin Street (Alumni and Development Office) yesterday. He comments that the University of Sussex' initiatives in Canada and the USA are no further forward than they were when he wrote to me in July (copy of 03 July memo attached). Robin's view is that CAF America would be the best organisation, as things stand, to process any gift. I enclose a copy of their brochure in which you will note that they levy a charge of 5% for sums less than \$100,000.

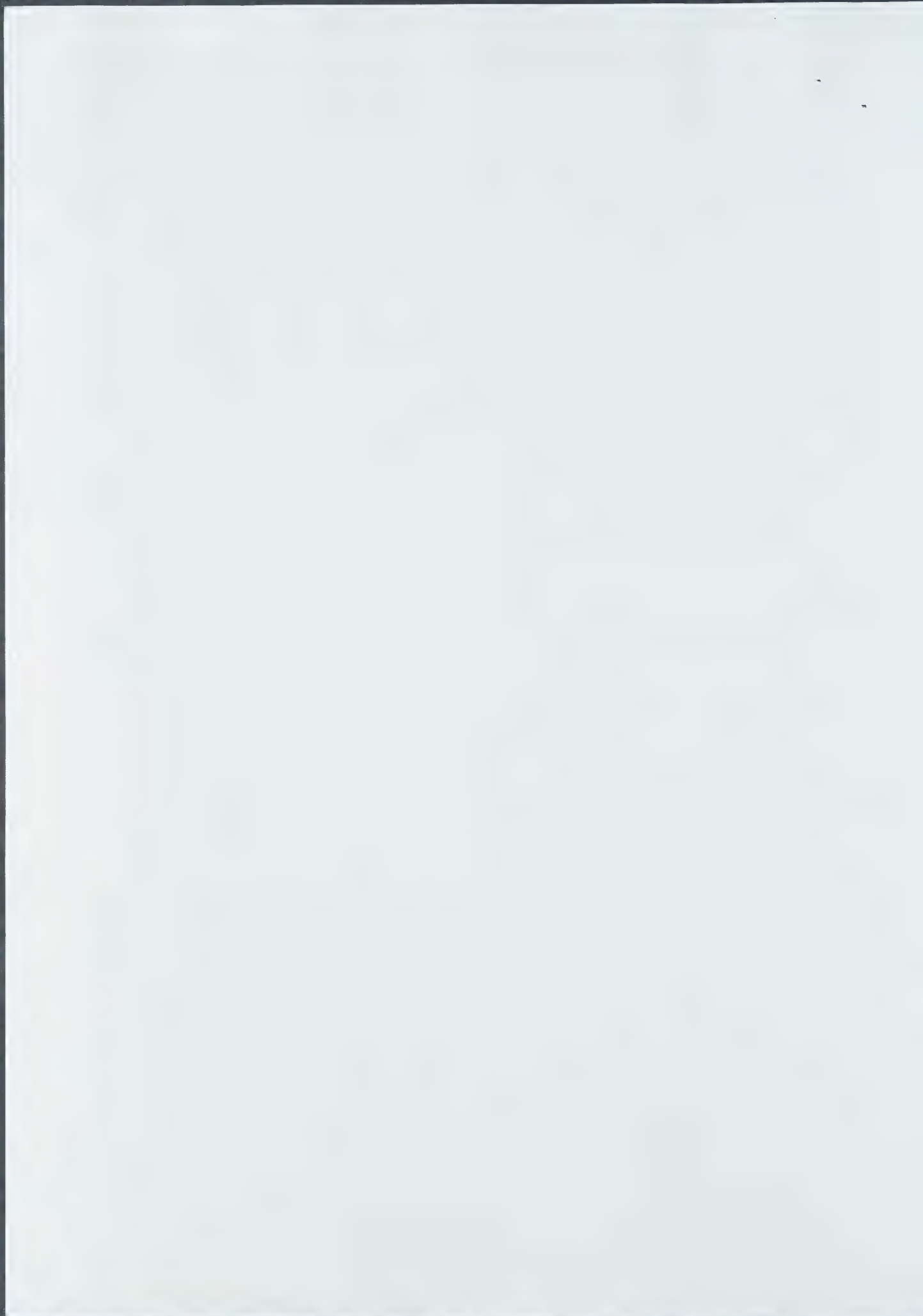
With best regards.

Yours sincerely

A handwritten signature in cursive script, appearing to read 'D R M Walton', with a long horizontal flourish extending to the right.

D R M Walton

cc: H W Kroto
J D Smith (Dean)



University of Sussex
MEMORANDUM
Alumni & Development Office, Sussex House
Telephone (internal) 8258

To: Dave Walton, MOLS
From: Development Officer
Date: July 3, 1995
Subject: Tax-efficient giving - North America

Canada

We applied in January to Revenue Canada for prescribed status as a 'university outside Canada' for the purposes of the Canadian Income Tax Act. Revenue Canada has advised us that they are making a formal recommendation to the Governor-in-Council to approve our application, which we expect to happen within the next few months. Revenue Canada has said that when the Order-in-Council is granted, it will be retroactive to January 1 1995. The Order will enable Canadian taxpayers to make tax efficient gifts to the University of Sussex without further formality.

USA

Here, two separate steps are normally required: first the creation of a company ('Friends' of the University of Sussex Inc), then registration with the IRS as what is known as a 501(c)(3) organisation, or charity. Apart from the set up legal costs there are the recurrent costs associated with running any company, including regular board meetings and annual audit. A New York based alumnus has volunteered to set up the organisation, deal with the IRS, recruit a board of trustees, and run the company. We are hopeful that this might happen within the next twelve months.

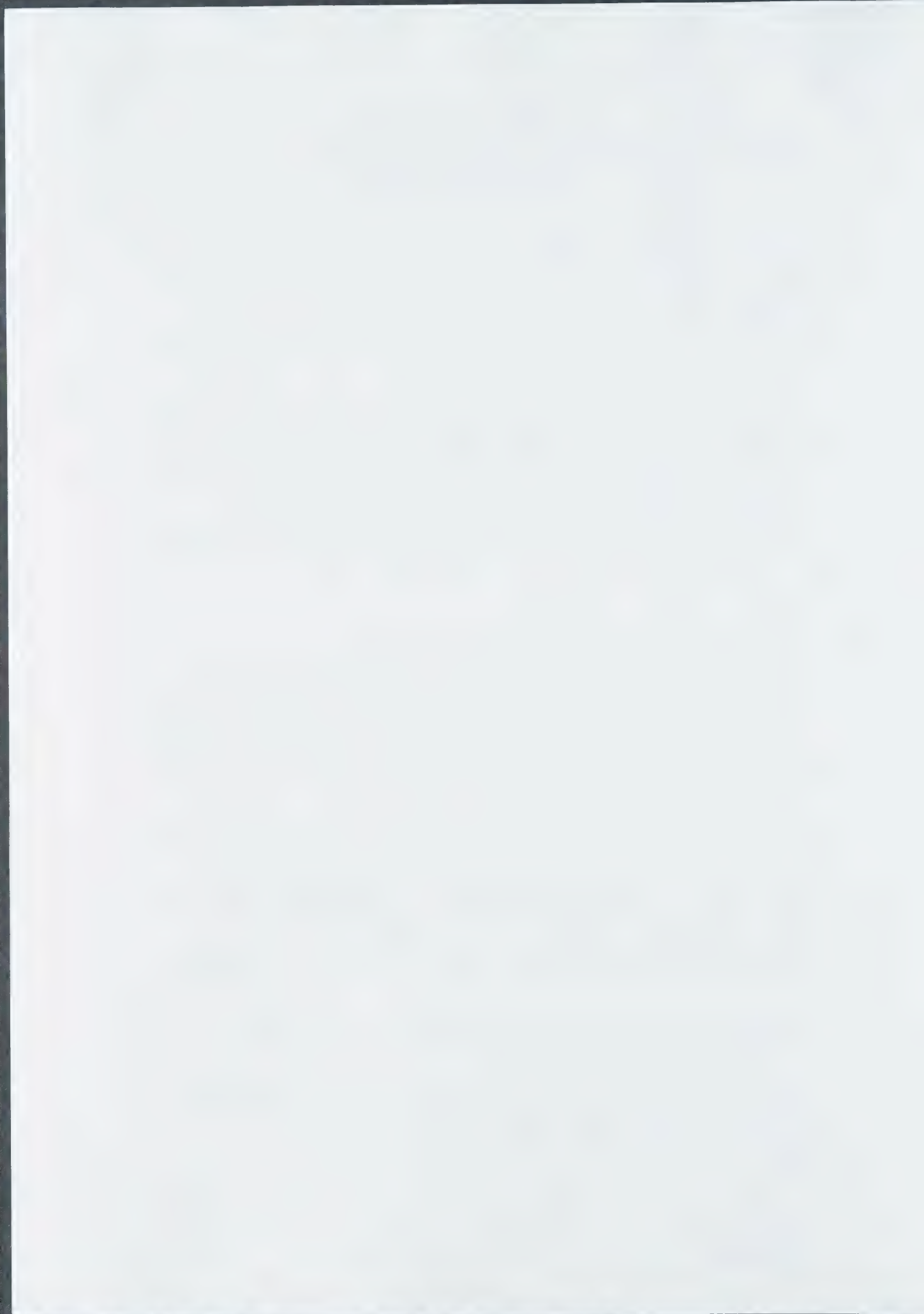
Under IRS rules, the trustees of any 501(c)(3) organisation must have discretion in the allocation of gifts received. No such organisation can accept a check payable to the University of Sussex. With that proviso in mind, there are specialist organisations which facilitate tax-efficient giving from US donors to non-US charities. One in particular which may be of interest to Mr Bader is an organisation known as CAFAmerica, an extension of the Charities Aid Foundation here in the UK. US donors make their gifts payable to CAFAmerica which takes a small percentage for handling the transfer of funds to the UK

I have a contact in the London office of the CAF who deals exclusively with CAFAmerica, but she is away until this Friday when I will seek further details.

In the circumstances you described to me, would not the simplest solution be for Mr Bader to have the Helen Bader Trust make the gift, and for him to make an appropriate tax-deductible gift to the Trust?

Hope can help: - - -


Robin Street



UNIVERSITY OF



SUSSEX
AT BRIGHTON

Centre for German-Jewish Studies

Sussex European Institute
University of Sussex
Falmer, Brighton, BN1 9QN

Telephone: (0273) 606755
Direct Line: (0273) 678495
Fax: (0273) 623246

Mr Alfred Bader
2961 North Sheppard Avenue
Milwaukee WI 53211
USA

Fax: 414 277 0709

12 September 1995

Dear Mr Bader,

You may remember that we first met in December 1994, when you and your wife visited the University of Sussex and had tea with the Vice Chancellor, Professor Gordon Conway. I also had the pleasure of hearing you speak at the Spiro Institute in London in June, when you explained the implications of the Rembrandt Research Project for the art collector.

When we met at Sussex, I mentioned that I would be travelling to Minneapolis in October 1995 to attend a conference at the Austrian Center, where I shall be giving a paper about the Jewish contribution to Viennese modernism around 1900. I shall also be stopping off in Chicago for three nights, Sunday 8th - Tuesday 10th October 1995 inclusive, where I shall be staying with Professor Sander L. Gilman and giving a talk to his research group on the evening of 9th October about the Viennese origins of Psychoanalysis.

May I ask if there is any possibility of visiting you in Milwaukee on **Tuesday 10th October**, a day when my timetable at present seems entirely free? (I am booked to fly on from Chicago to Minneapolis on Wednesday 11th).

(Tue. 10 October),

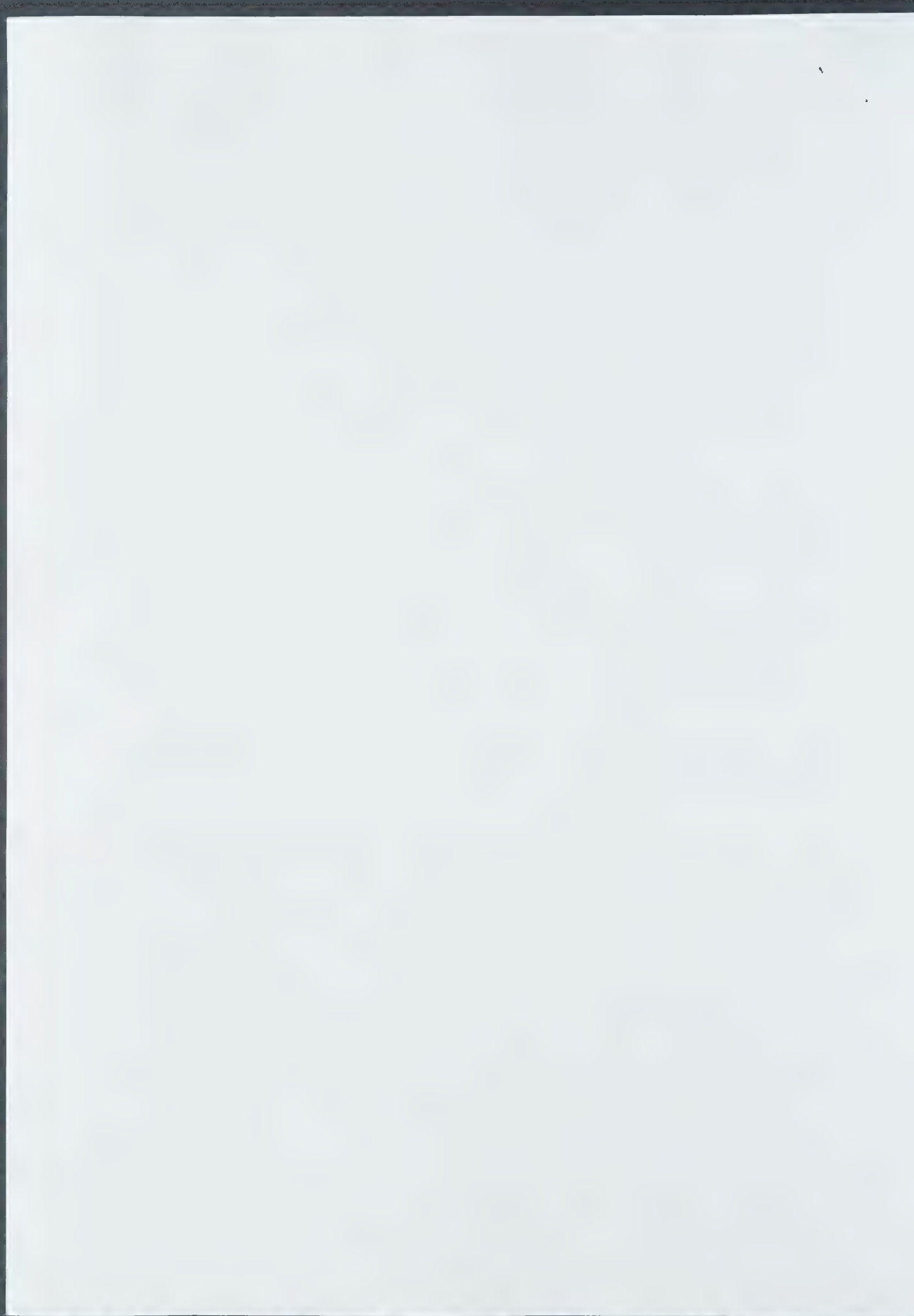
It would be a great pleasure to travel up to Milwaukee on that day, if you are able to make an hour or so free to see me. You mentioned that you have a colleague in German-Jewish studies at the University of Milwaukee that you would like to introduce me to. It would also be a great privilege if I could see with my own eyes one or two of those fascinating items from your collection which you described in your talk at the Spiro Institute. Your Adventures of a Chemist Collector has also whetted my appetite to hear more about your research methods.

I enclose with this letter further details of the German-Jewish Archive and Research Centre, which is to be constructed in the Sussex University Library extension in 1996-98 (subject to the success of our fund-raising programme). Ralph Emanuel, one of the most active members of our London-based development committee, has kindly given me your Fax number. Perhaps you yourself could kindly reply to the University of Sussex by **Fax: 44 1273 623246**.

I do hope I shall have a chance to meet you in Milwaukee.

*Warmest good wishes
from Edward Timms*

Director: Professor Edward Timms



German-Jewish Archive and Research Centre

to be located in the Library extension, University of Sussex
(preliminary outline, 25 May 1995)

A. Mission Statement:

The mission of the Centre is to provide archival, research and teaching facilities relating to the political, social and cultural history of the German-speaking Jews. The focus will be both on the creative achievements of the 'German-Jewish symbiosis' and on the antisemitic countercurrents which culminated in policies of persecution, expulsion and genocide. The Centre is designed to promote active learning about problems of multi-culturalism, past, present and future; it is not to be simply an archive commemorating the past.

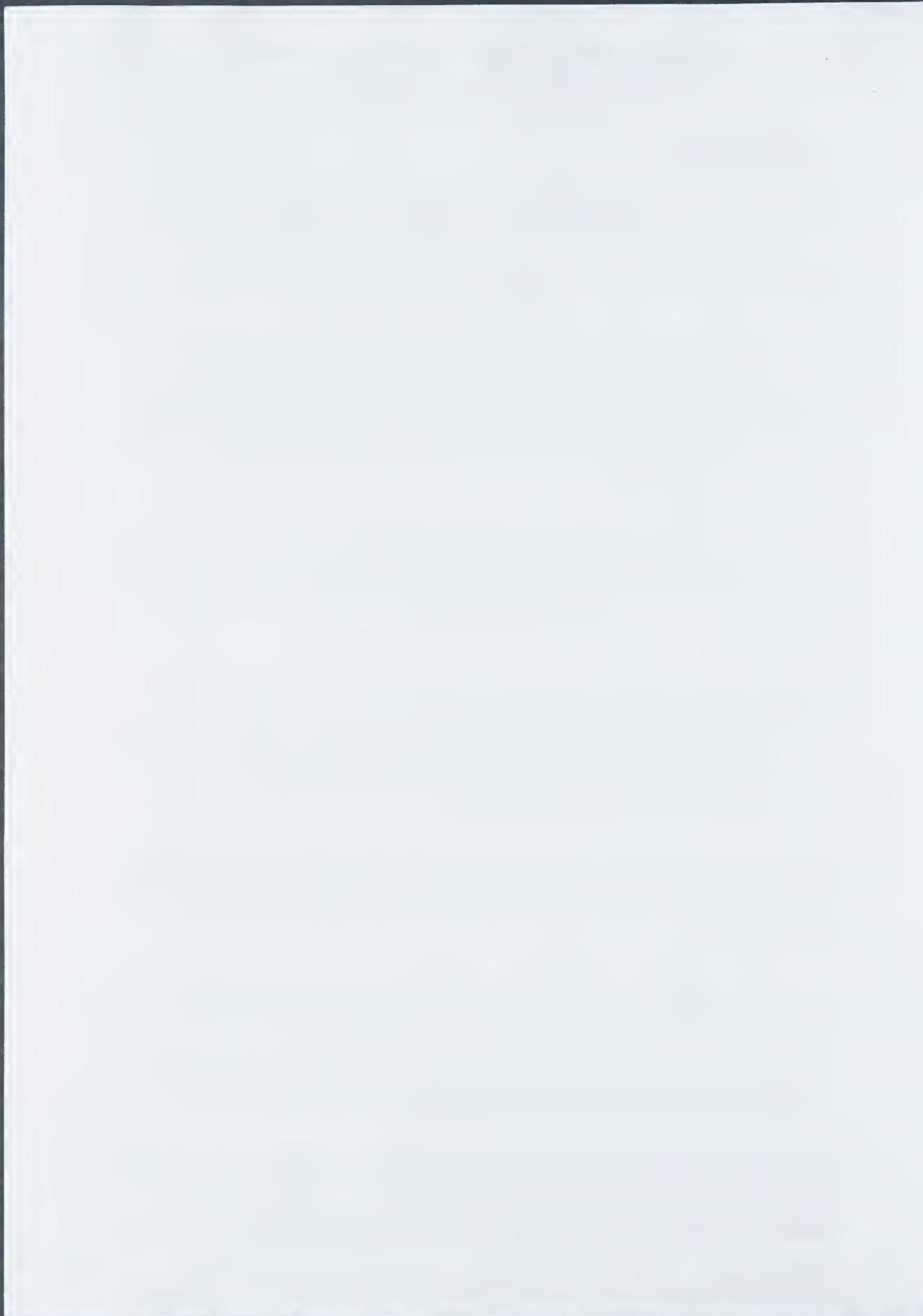
More specifically, the Centre is designed to complement the work of the Mass Observation Unit by documenting the life histories of Jewish refugees who settled in Britain around the time of the Second World War. Priority will be given to documentation relating to the enforced migration of Jews from Nazi-occupied Europe, personal and family testimony about their experiences during resettlement, their contribution to the social and cultural life of the English-speaking world, and their enduring legacy for the Europe of the 21st century.

B. Practical Specifications:

Developments in information technology make it possible to accommodate a wide range of research resources within a relatively compact space, making full use of Internet and CD-Rom. The risk of having to 'duplicate' resources already available elsewhere will be reduced if the Centre is networked so that researchers can access specialist collections at other institutions.

The basic facilities needed are as follows:

1. Storage: A large archive designed for storing bulky objects will not be needed, if optimal use is made of Internet, CD-Rom, microfilm and microfiche, audio-visual and multi-media resources. For example, the whole of the Jewish Chronicle is available on CD-Rom, and other essential journals and reference works will soon be available in a similar format. However, the storage space should also be substantial and flexible enough to accommodate collections of letters, diaries and other papers donated to the archive.
2. Reference section: Since the Centre is designed to facilitate specialized research, it should provide shelf-space for a range of essential reference works which students and researchers will need to consult frequently, for example Jewish Encyclopedias, research journals and the Leo Baeck Yearbook. General books on German-Jewish history will remain in the relevant section of the Library.
3. Information technology: Activities will be centred in a study area with work stations equipped with computers and word processors, CD-Rom and multimedia facilities, and Internet and E-mail link-ups. A minimum of five work stations is envisaged.
4. Flexible study space: Additional seating will be needed so that the Centre can also be used at specific times for discussion groups or research seminars involving perhaps 12-15 participants.
5. Administrative facilities: One of the work stations should be designed so that it can double up as an 'office' for a part-time Archivist or Research Assistant, who would need filing cabinets and other secretarial equipment, including a compact photocopier, fax machine and 'dictaphone'-type cassette playback equipment with foot-control and ear-phones.
6. Director's office: There should also be a small self-contained office with shelving and filing facilities, word processor and computer network access for the Director of the Centre.



FAX FROM

Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

A Chemist Helping Chemists

September 19, 1995

To: Dr. Roger Taylor
Department of Chemistry
University of Sussex
Fax: 44-1273-677-196

Dear Dr. Taylor:

In response to your letter of September 8th, please refer to my letter to you of August 29th.

Unfortunately, I could not give me talk at 4:15 in the afternoon and then join you for dinner because I have to be in London mid-afternoon of that day. Of course, I could join you for a relatively early lunch and then catch a fast train from Brighton to London.

If seminars are very much preferable on Monday afternoons, then I could join you on the afternoon of Monday, November 20th.

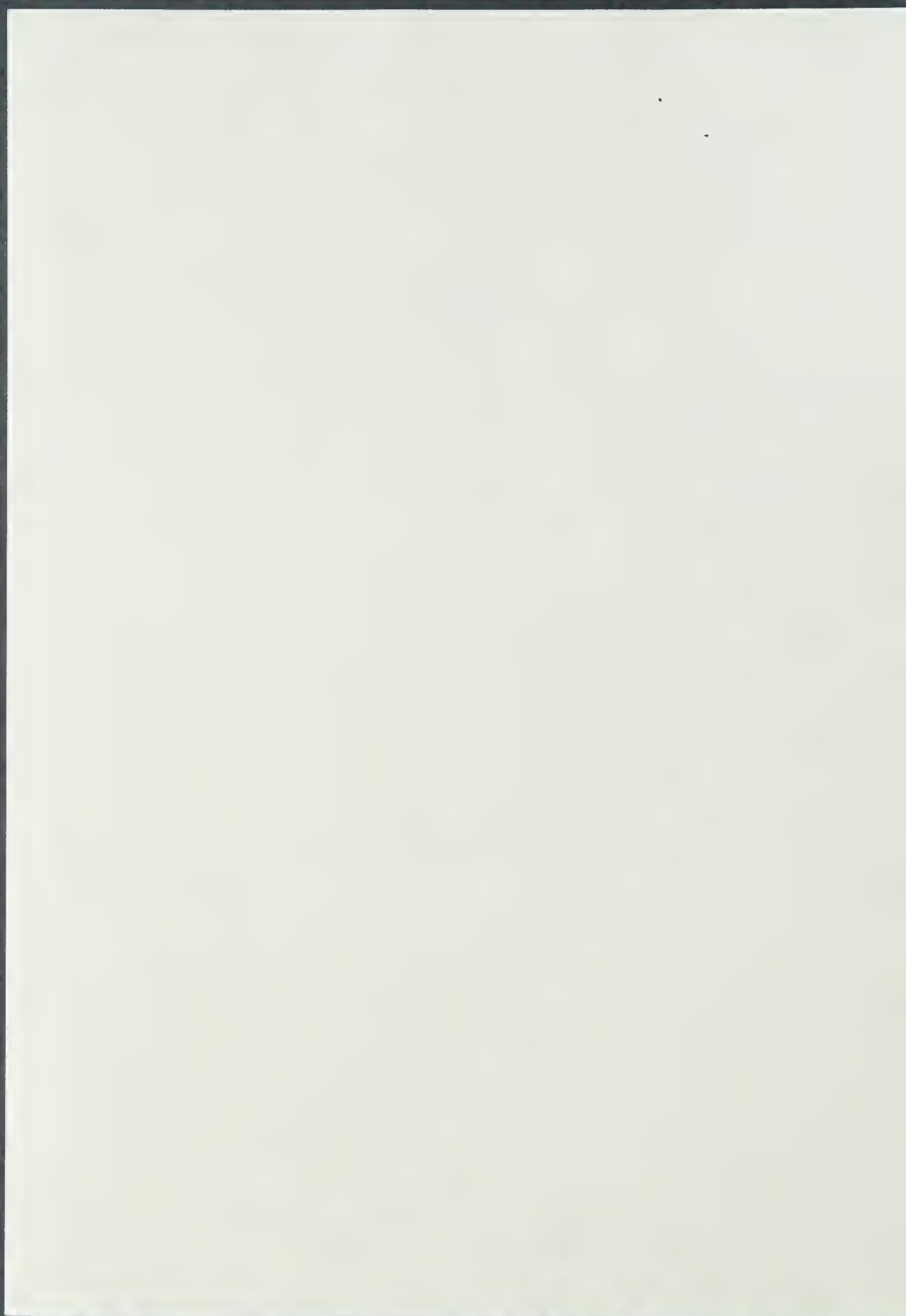
Please do let me know soon as my calendar is filling up rapidly.

With best regards, I remain,

Yours sincerely,



AB/cw



.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

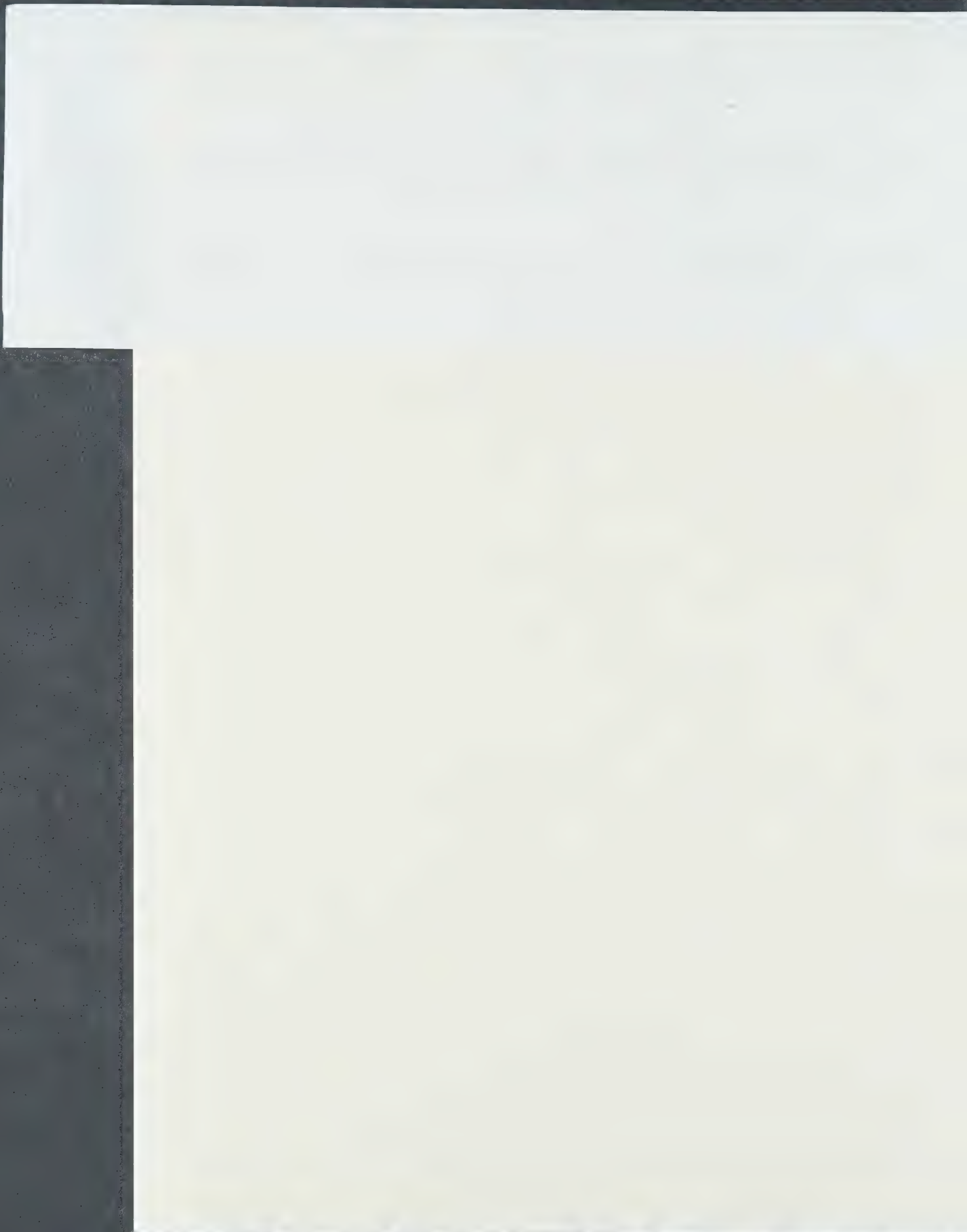
.....

.....

.....

.....

.....



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

Dr Alfred R Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211
USA

8 September 1995

Dear Dr Bader

Thank you very much for your letter of 29 August agreeing to give a talk here entitled 'Archibald Scott Cooper and Josef Loschmidt: Out of the Shadow' on 4 December 1995.

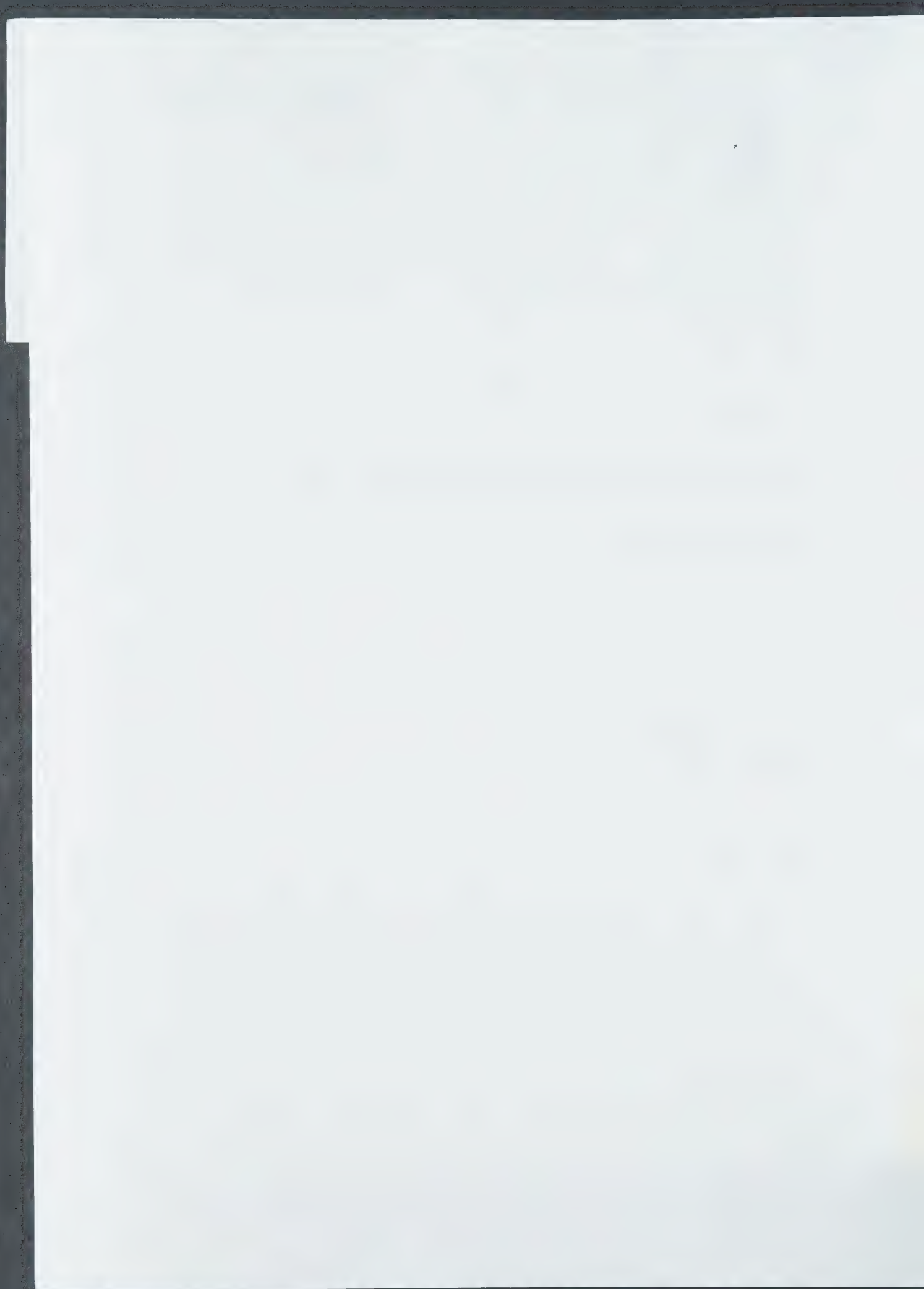
I note your planned arrival time (the Colloquia begin at 4.15 p.m.) and we shall be pleased to take you to dinner afterwards.

I look forward to meeting you again in December.

Yours sincerely

A handwritten signature in cursive script, appearing to read 'Roger Taylor'.

Dr Roger Taylor



FAX FROM

Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

A Chemist Helping Chemists

September 13, 1995

To: Professor Edward Timms
University of Sussex
Fax: 44-1273-623-246

Dear Professor Timms:

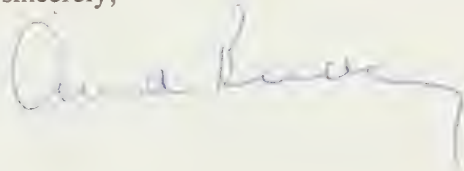
Thank you for your fax of September 12th.

Isabel and I much look forward to seeing you on Tuesday, October 10th, and we have also spoken to Professor Ruth Schwertfeger, who looks forward to meeting you also.

Please just let me know how you will be coming to Milwaukee. The easiest from Chicago is certainly not flying, but by coming by bus or train from downtown Chicago or by bus from the Chicago airport, O'Hare.

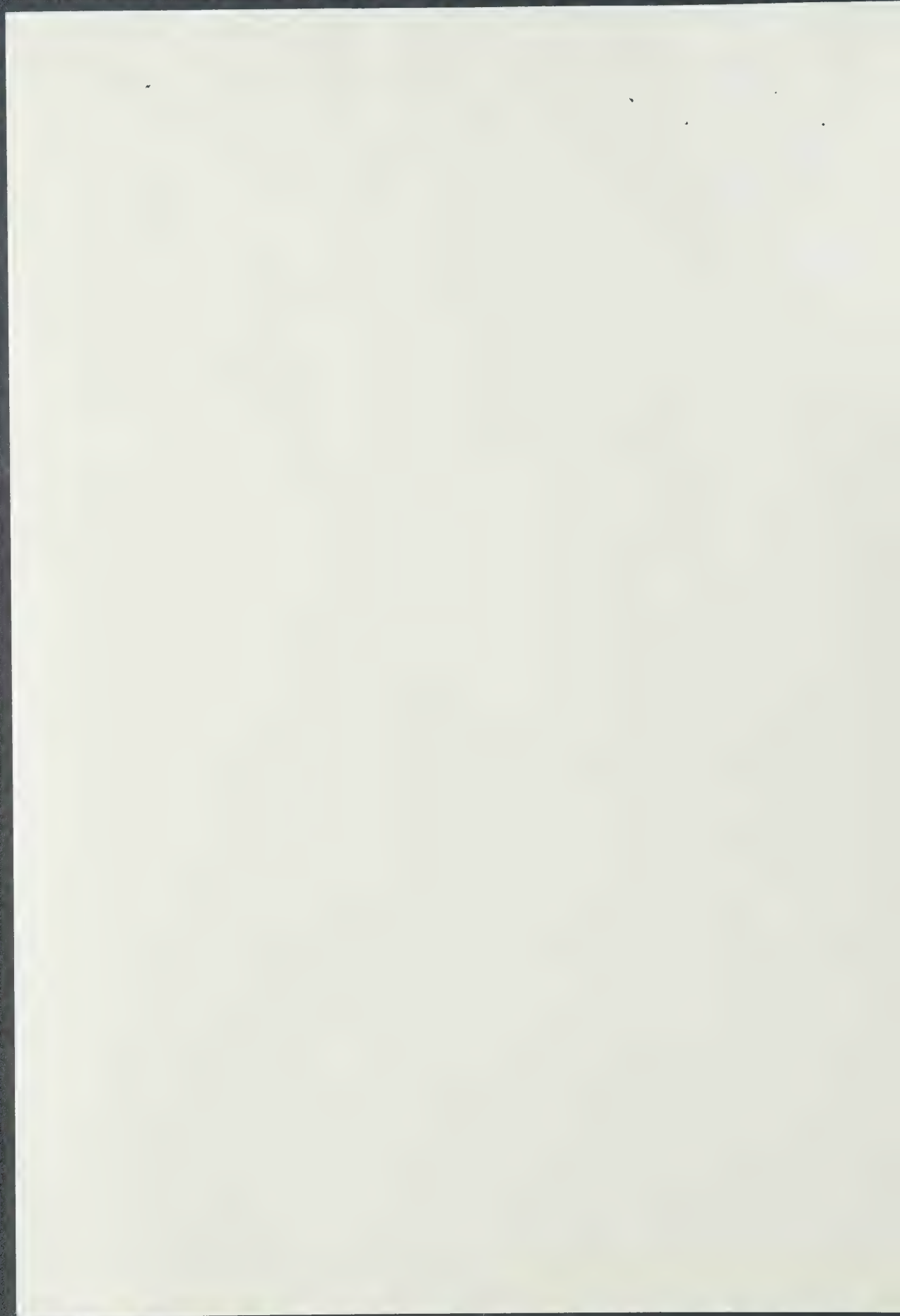
With best regards, I remain,

Yours sincerely,



AB/cw

Ofc.Ph.: 414/277-0730
Ofc.Fax: 414/277-0709



INVOICE

TO: Mr. J. H. ...

RECEIVED

THE ...

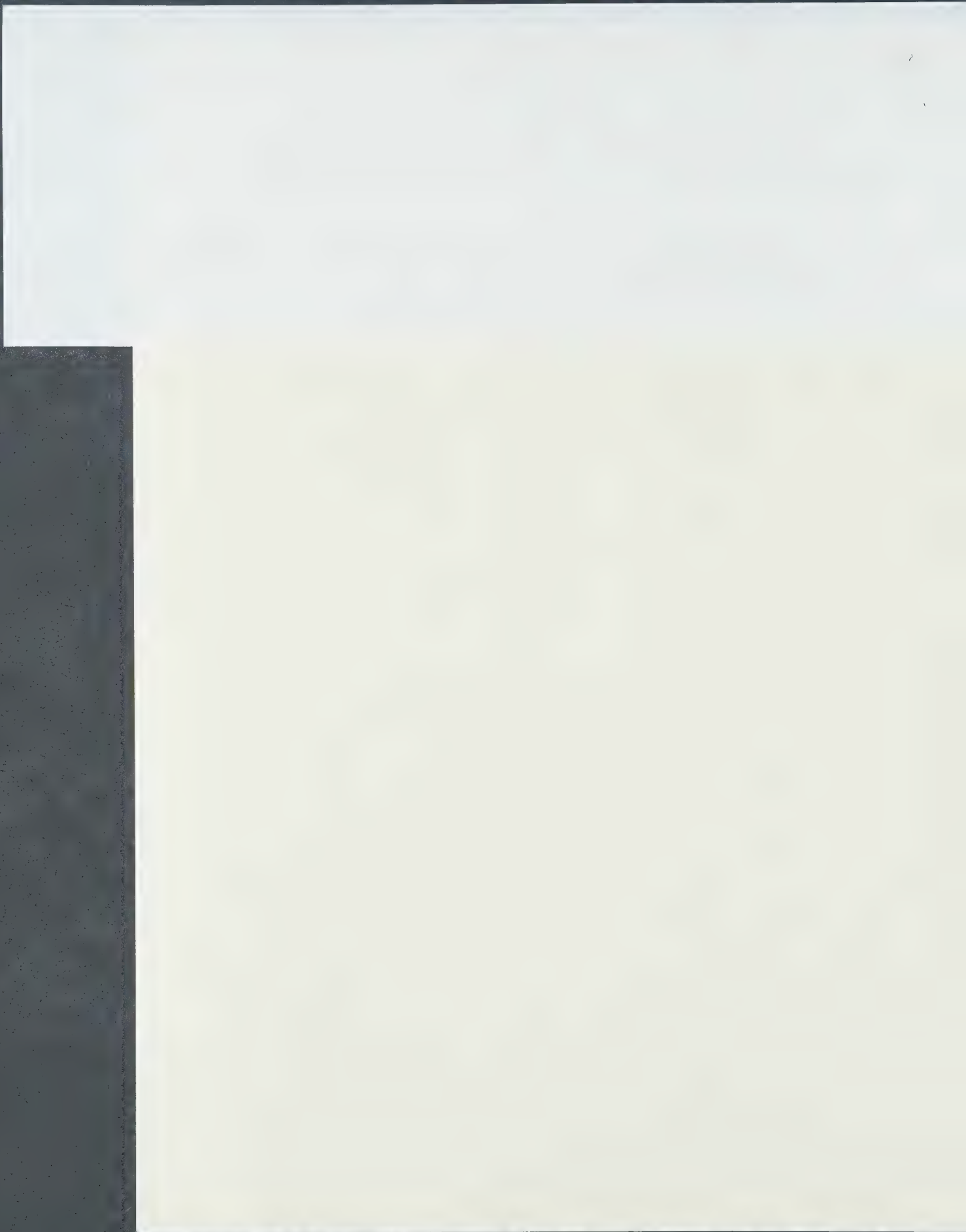
...

...

...

...

...



UNIVERSITY OF



Centre for German-Jewish Studies

100, Brooklands Drive,
 Palmerston Park,
 Brighton, BN1 9QJ,
 Sussex, England, U.K.
 Direct Line: (01323) 810111
 Fax: (01323) 603144

Mr Alfred Badet
 2961 North Sheppard Avenue
 Milwaukee WI 53211
 USA

Fax 414 277 0709

Dear Mr Badet

You may remember that we first met in December 1994, when you and your wife visited the University of Sussex and had tea with the Vice Chancellor, Professor Gordon Conway. I also had the pleasure of hearing you speak at the Spiro Institute in London in June, when you explained the implications of the Rembrandt Research Project for the art collector.

When we met at Sussex, I mentioned that I would be travelling to Minneapolis in October 1995 to attend a conference at the Austrian Center, where I shall be giving a paper about the Jewish contribution to Viennese modernism around 1900. I shall also be stopping off in Chicago for three nights, Sunday 8th - Tuesday 10th October 1995 inclusive, where I shall be staying with Professor Sander L. Gilman and giving a talk to his research group on the evening of 9th October about the Viennese origins of Psychoanalysis.

May I ask if there is any possibility of visiting you in Milwaukee on Tuesday 10th October a day when my timetable at present seems entirely free? (I am booked to fly on from Chicago to Minneapolis on Wednesday 11th)

It would be a great pleasure to travel up to Milwaukee on that day, if you are able to make an hour or so free to see me. You mentioned that you have a colleague in German-Jewish studies at the University of Milwaukee that you would like to introduce me to. It would also be a great privilege if I could see with my own eyes one or two of those fascinating items from your collection which you described in your talk at the Spiro Institute. Your Adventures of a Chemist Collector has also whetted my appetite to hear more about your research methods.

I enclose with this letter further details of the German-Jewish Archive and Research Centre, which is to be constructed in the Sussex University Library extension in 1996-98 (subject to the success of our fund-raising programme). Ralph Emanuel, one of the most active members of our London-based development committee, has kindly given me your Fax number. Perhaps you yourself could kindly reply to the University of Sussex by **Fax: 44 1273 623246**.

I do hope I shall have a chance to meet you in Milwaukee.

Warmest good wishes
 from Edward Jones

Edward Jones, Secretary



German-Jewish Archive and Research Centre

- to be located in the Library extension, University of Sussex
(preliminary outline, 25 May 1995)

A. Mission Statement:

The mission of the Centre is to provide archival, research and teaching facilities relating to the political, social and cultural history of the German-speaking Jews. The focus will be both on the creative achievements of the 'German-Jewish symbiosis' and on the antisemitic countercurrents which culminated in policies of persecution, expulsion and genocide. The Centre is designed to promote active learning about problems of multi-culturalism, past present and future: it is not to be simply an archive commemorating the past.

More specifically, the Centre is designed to complement the work of the Mass Observation Unit by documenting the life histories of Jewish refugees who settled in Britain around the time of the Second World War. Priority will be given to documentation relating to the enforced migration of Jews from Nazi-occupied Europe, personal and family testimony about their experiences during resettlement, their contribution to the social and cultural life of the English-speaking world, and their enduring legacy for the Europe of the 21st century.

B. Practical Specifications:

Developments in information technology make it possible to accommodate a wide range of research resources within a relatively compact space, making full use of Internet and CD-Rom. The risk of having to 'duplicate' resources already available elsewhere will be reduced if the Centre is networked so that researchers can access specialist collections at other institutions.

The basic facilities needed are as follows:

1. Storage: A large archive designed for storing bulky objects will not be needed, if optimal use is made of Internet, CD-Rom, microfilm and microfiche, audio-visual and multi-media resources. For example, the whole of the *Jewish Chronicle* is available on CD-Rom, and other essential journals and reference works will soon be available in a similar format. However, the storage space should also be substantial and flexible enough to accommodate collections of letters, diaries and other papers donated to the archive.
2. Reference section: Since the Centre is designed to facilitate specialized research, it should provide shelf-space for a range of essential reference works which students and researchers will need to consult frequently, for example Jewish Encyclopedias, research journals and the *Leo Baeck Yearbook*. General books on German-Jewish history will remain in the relevant section of the Library.
3. Information technology: Activities will be centred in a study area with work stations equipped with computers and word processors, CD-Rom and multimedia facilities, and Internet and E-mail link-ups. A minimum of five work stations is envisaged.
4. Flexible study space: Additional seating will be needed so that the Centre can also be used at specific times for discussion groups or research seminars involving perhaps 12-15 participants.
5. Administrative facilities: One of the work stations should be designed so that it can double up as an 'office' for a part-time Archivist or Research Assistant, who would need filing cabinets and other secretarial equipment, including a compact photocopier, fax machine and dictaphone'-type cassette playback equipment with foot-control and ear-phones.
6. Director's office: There should also be a small self-contained office with shelving and filing facilities, word processor and computer network access for the Director of the Centre.





Dr. Alfred Bader
924 East Juneau; Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

October 13, 1995

Dr. David Walton
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear David:

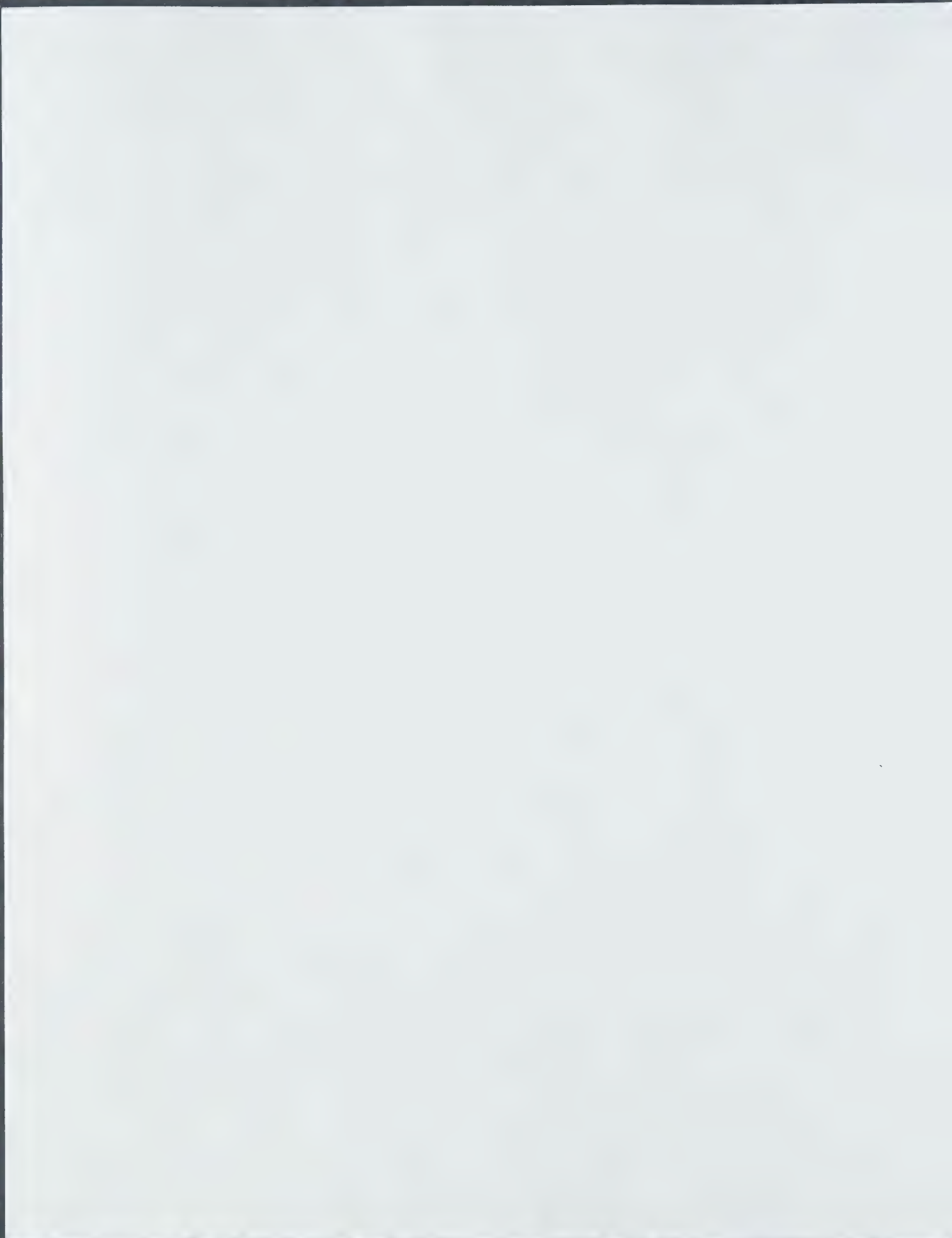
You will recall that I promised to make a donation of \$10,000 for buckminsterfullerene research if efforts for funding from the Royal Society and the Royal Society of Chemistry were unsuccessful.

Please let me know.

With all good wishes, I remain,

Yours sincerely,

AB/cw



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

14 November 1995

Dr A R Bader
White Gables
2A Holmesdale Road
Bexhill-on-Sea
TN39 3QE

Dear Alfred

Thank you very much for your 10 November fax noting your date of arrival in Bexhill. Herewith the University of Sussex receipt for the US\$10,000. I believe the Vice-Chancellor, Gordon Conway has written to you about the gift; I am very pleased he has done so.

Harry will be in London all day 23 November, which is part-reason for suggesting that we meet up for a meal. I realise you will have a hectic schedule during your current stay. Do you have any slots when perhaps the two of us could come over to Bexhill? It would be very helpful if you could let me know the approximate time of your arrival here on the 23rd so that arrangements can be made for you to meet the awardees.

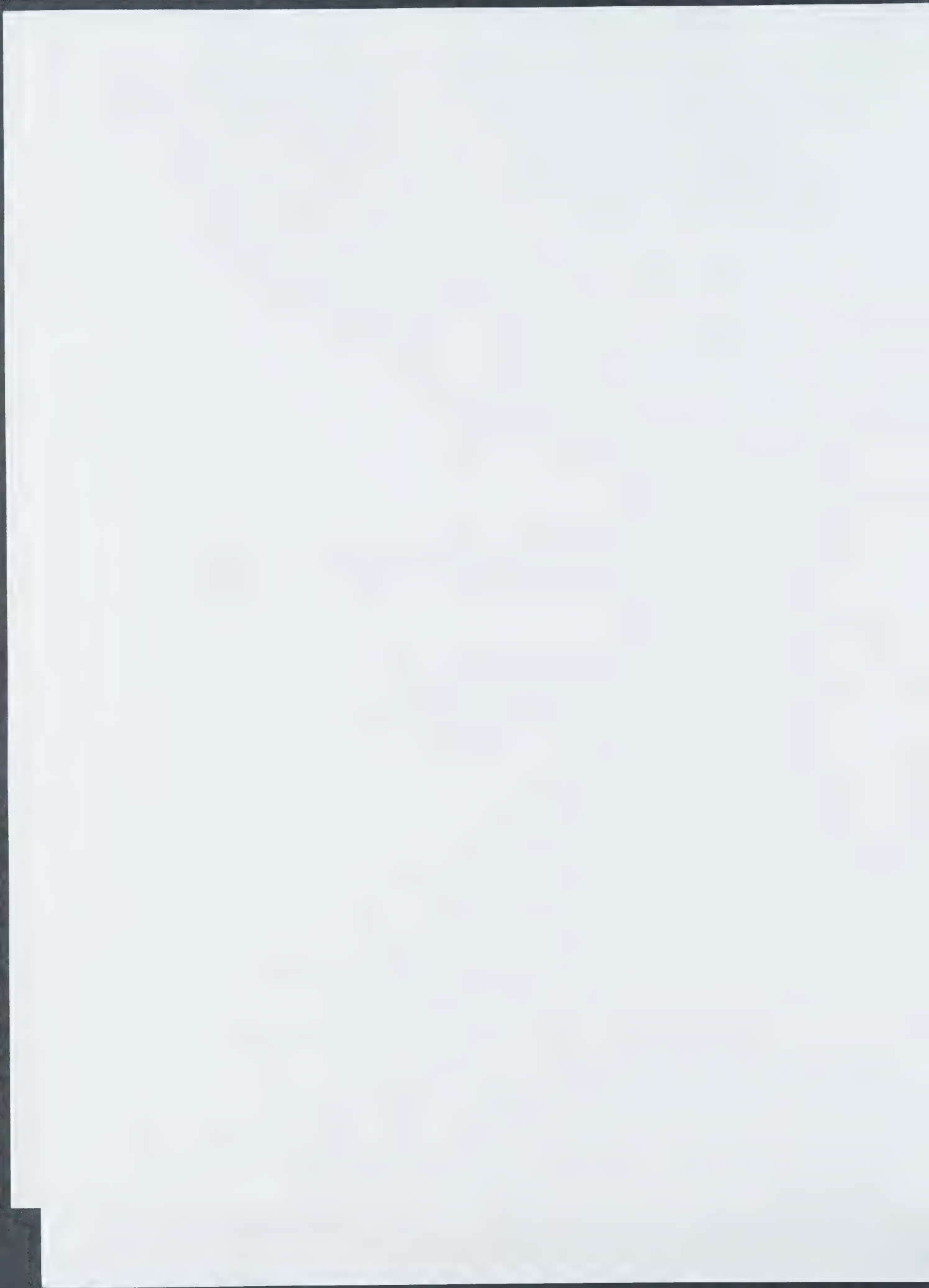
With best regards to Isobel and you.

As always.

David

DRMW

*Jean Hanson
12 204
Stage 1
2nd floor*





Dr. Alfred Bader
924 East Juneau, Suite 622
Milwaukee, Wisconsin 53202
Phone: 414/277-0730
Fax: 414/277-0709

A Chemist Helping Chemists

January 23, 1996

Dr. Harry Kroto
School of Chemistry and Molecular Sciences
University of Sussex
Falmer, Brighton BN1 9QJ
England

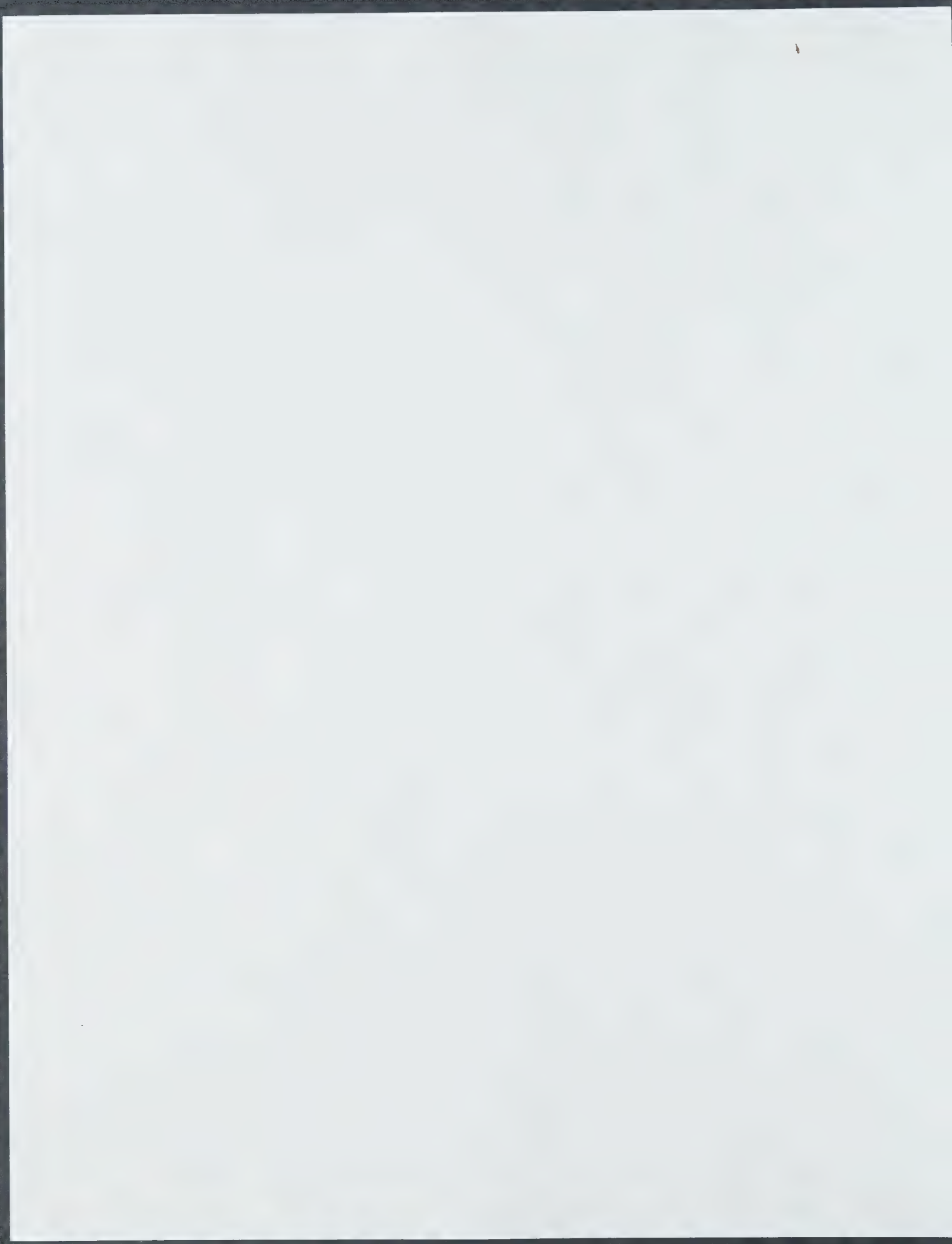
Dear Harry:

Thank you so much for that beautiful book by Karl Blossfeldt with those truly inspiring photographs.

With all good wishes, I remain,

Yours sincerely,

AB/cw



October 13, 1995

Dr. David Walton
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear David:

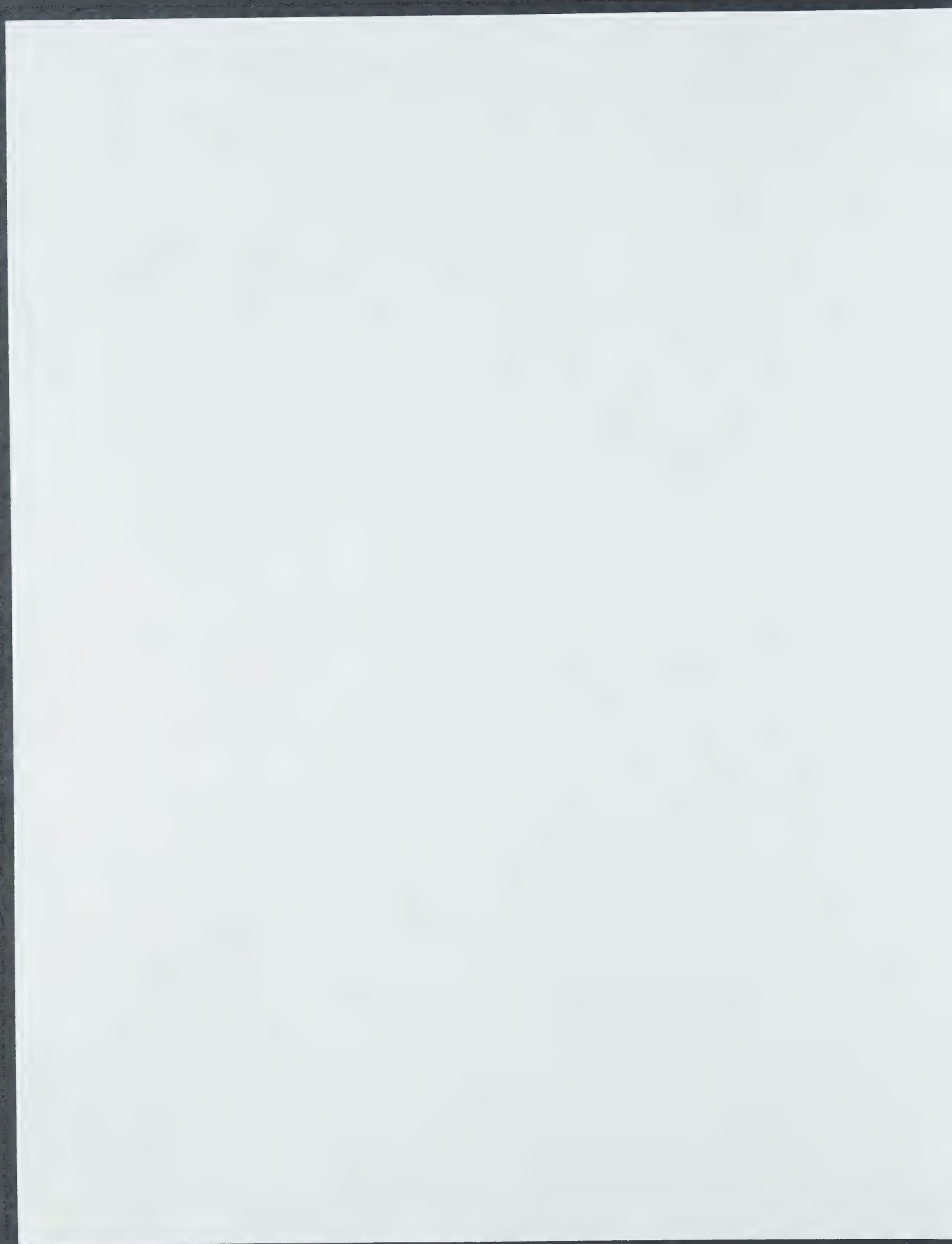
You will recall that I promised to make a donation of \$10,000 for buckminsterfullerene research if efforts for funding from the Royal Society and the Royal Society of Chemistry were unsuccessful.

Please let me know.

With all good wishes, I remain,

Yours sincerely,

AB/cw



August 29, 1995

Dr. Roger Taylor
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Dr. Taylor:

In response to your letter of August 14th, I could not be with you on October 30th, but could on the morning of December 4th. I could come to Falmer from Bexhill, arriving around 10:00 am, speaking at 11:00, and then catching a fast train from Brighton to London to be there mid-afternoon.

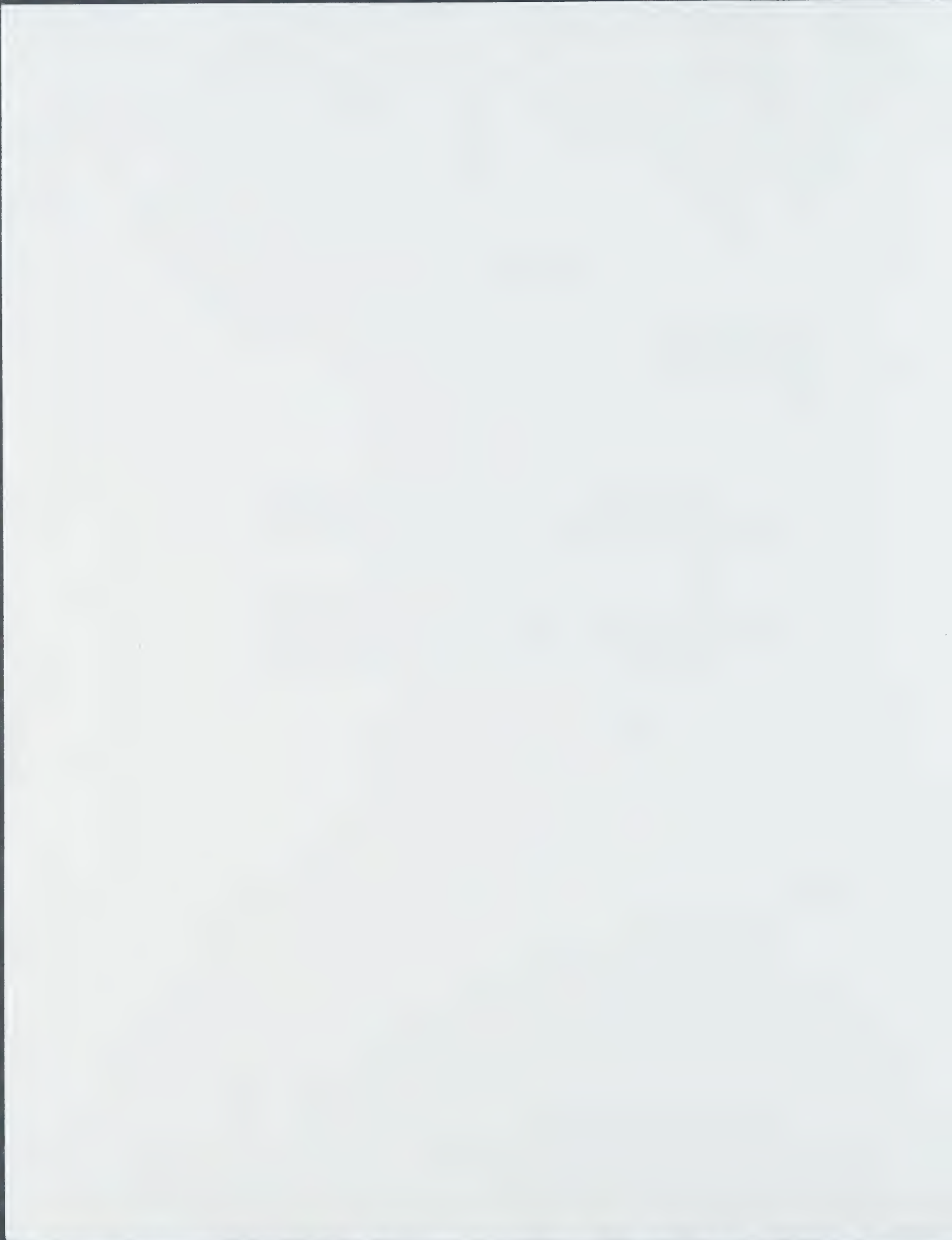
I think the talk of greatest interest would be on Richard Anschütz discovering the work of Archibald Scott Couper and Josef Loschmidt. As a title, I would like to suggest "*Archibald Scott Couper and Josef Loschmidt: Out of the Shadow*". For the talk, I would need an overhead projector to show transparencies.

With all good wishes, I remain,

Yours sincerely,

AB/cw

cc: Dr. David Walton



August 29, 1995

Dr. David Walton
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear David:

In response to your letter of August 18th, I would just like to confirm that I will send a gift of \$10,000.00 this year if the Royal Society Chemistry and the Royal Society do not help as I hope they will. The only condition is that the gift be U.S. tax deductible to me.

Please let me know whether the University of Sussex has now set up a U.S. Friends of Sussex University, and if not, whether C.A.F. America is willing to accept my gift and pass it on to the University without substantial deduction.

Clearly, I am still hopeful that Drs. Gregory and Inch will help, and if not, that the University has set up a Friends organization.

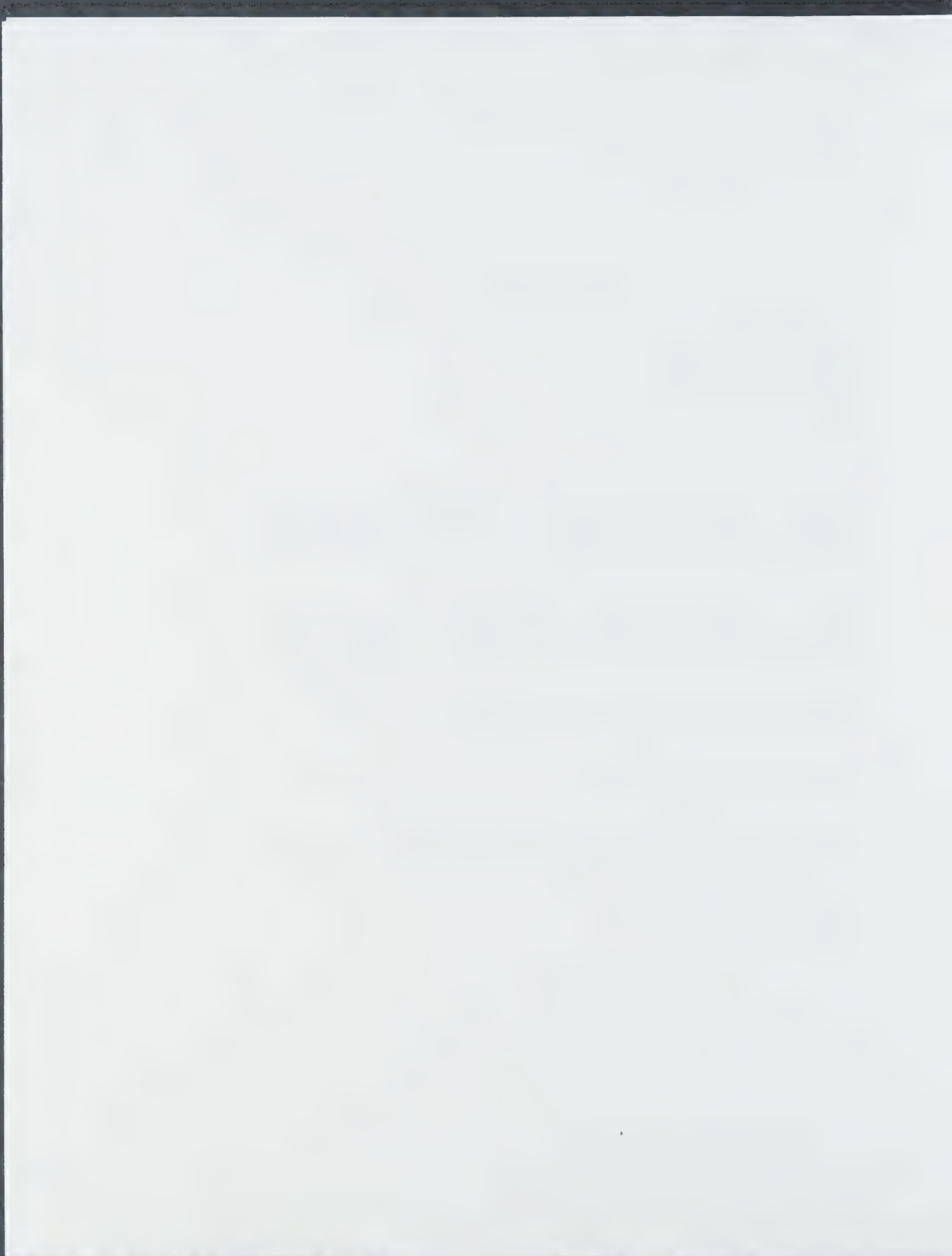
Did you see that fine reference to your work in the latest *Chemical Intelligencer*, copy enclosed?

I just heard from Dr. Roger Taylor, inquiring whether I could speak in your department on October 30th or December 4th, and the latter date is possible.

With all good wishes, I remain,

Yours sincerely,

AB/cw



FAX FROM:

October 31, 1995

TO: Dr. David Walton
Department of Chemistry
University of Sussex
FAX: 44-1273-677-196

Dear David:

You will recall that I promised a gift of \$10,000 this month to support your research provided that neither the Royal Society nor the Royal Society of Chemistry have helped.

Just today, I have received legal counsel that the Isabel and Alfred Bader Foundation may send a check to the University of Sussex to help that research. Thus, we avoid going through an intermediary and paying a commission.

I am mailing you that check today and would appreciate your giving me a receipt when I visit you at the University on Thursday, November 23rd.

I was asked to give a lecture entitled "*The Bible Through Dutch Eyes*" at 5:00 that afternoon and of course very much hope to have a chance to visit your department before that.

With all good wishes, I remain,

Yours sincerely,

AB/cw

UNIVERSITY OF



SUSSEX
AT BRIGHTON

School of Cultural and Community Studies

Arts Building
University of Sussex
Falmer, Brighton BN1 9QN

Telephone: (0273) 606755
Fax: (0273) 678466

Mr Alfred Bader
Suite 622
924 East Juneau Avenue
Milwaukee
Wisconsin 53202
U.S.A.

12 October 1993

Dear Mr Bader,

Our Pro-Vice-Chancellor, Dr Colin Brooks, has been in touch with me concerning your wish to give a lecture to the Art History students here. I am largely responsible for courses on northern painting of the 16th and 17th centuries. We are delighted at the prospect. It would be very informative for them to hear about your collection and most useful if this were presented in such a way as to discuss something of the ways and means of collecting in the late 20th century. It is useful for students to hear about this for a variety of reasons, not least the vocational one that some of them may wish to find employment in the world of auction houses.

I assume you would like a relatively informal gathering of our own students. This would leave a maximum flexibility as to timing for I do not propose to book a large lecture hall for you but use our seminar room, which can hold up to 30 people. Some of my teaching colleagues would be there also. The University would very much like to offer you dinner afterwards, if you could spare the time.

Dr Brooks says that you are due in Britain this autumn, so I hope this letter reaches you. Looking at our diary, I wonder if 5 pm on any of the Thursdays 11th, 18th or 25th November would suit you? Do let me have your thoughts. I look forward very much to meeting you.

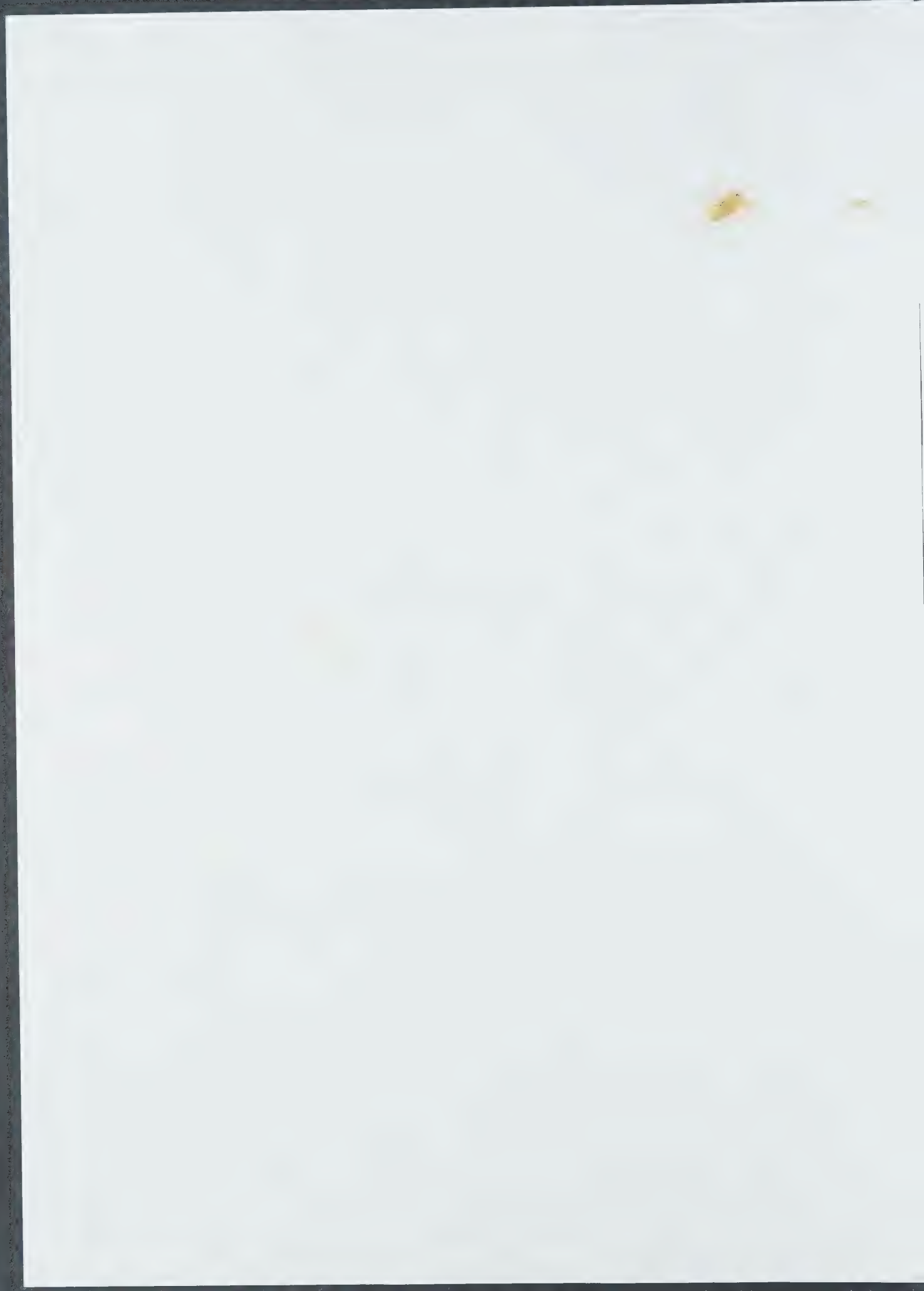
Yours sincerely,

A handwritten signature in cursive script that reads "Maurice Howard".

Dr Maurice Howard, Senior Lecturer
and Chair of the Graduate Division, History of Art

Dean: T. J. Diffey, B.A., Ph.D

Sub-Deans: (Student Affairs) John Jacobs, M.A. (Academic Affairs) Brian M. Short, B.A., Ph.D.



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

22 September 1993

Dr A R Bader
2961 North Shepard Ave
Milwaukee
Wis 53211
U S A

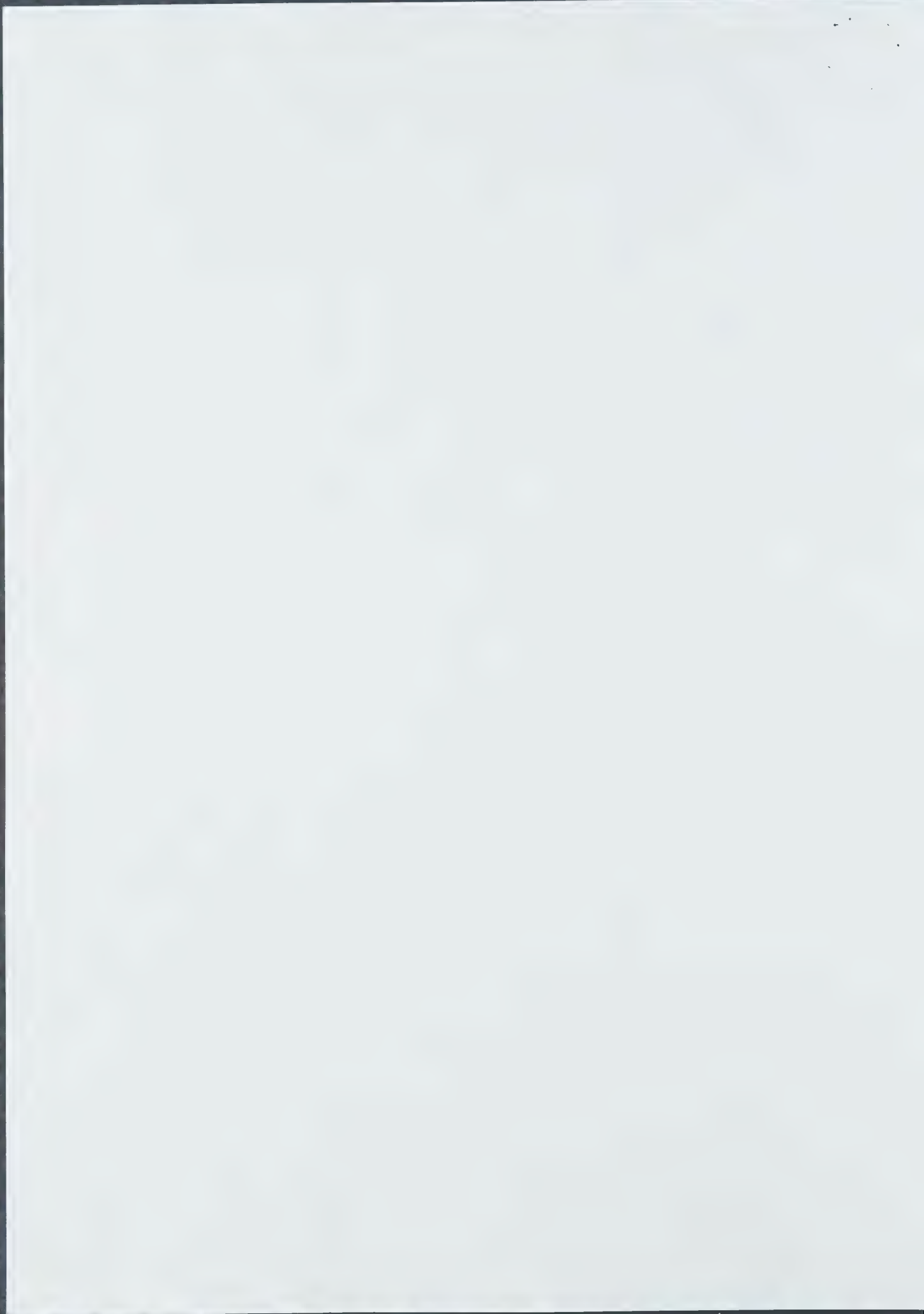
Dear Alfred

Here is a copy of the MOLS program for the coming term. I have still to make headway with the Art Historians here, who decamped for the summer and have yet to return to the fold. I will up-date you on the possible second lecture (on 06 December) as soon as I can.

With best regards

David

D R M Walton





ET

AUTUMN TERM 1993, MONDAY COLLOQUIUM PROGRAMME

[All lectures will be at 4.15 pm in MSLT, MOLS]

October

- 4 **Dr John R Sodeau, UEA**
 "Atmospheric Cryochemistry"
- 11 **Professor J Cornforth, Sussex**
 "A Comedy of Errors"
- 18 **Dr K A McLaughlan, FRS., Oxford**
 "Are Environmental Magnetic Fields dangerous to Man?"
- 25 **Dr H S Rossotti, Oxford**
 "The Fire Triangle : Theme and Variations"

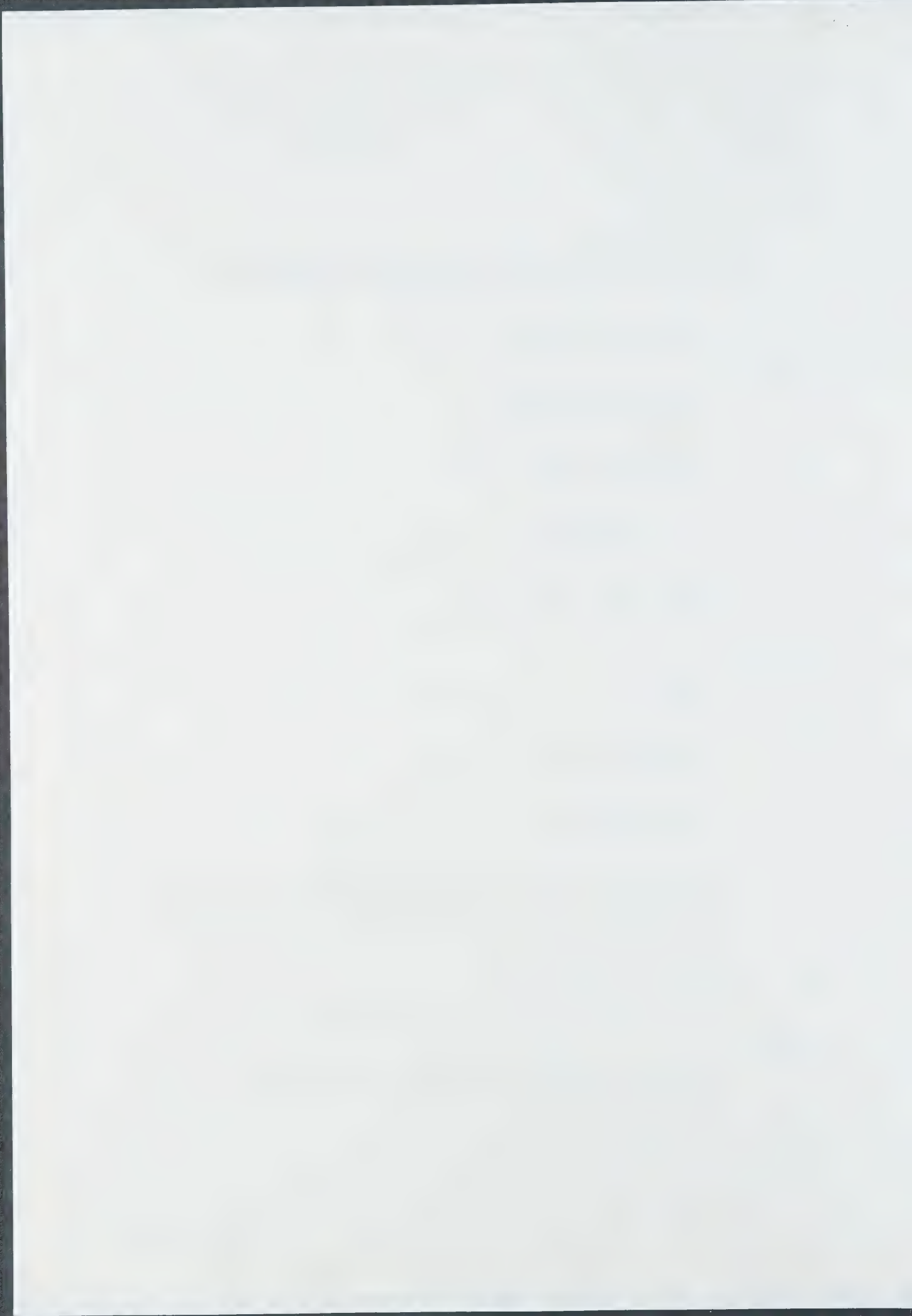
November

- 1 **Professor P Day, R.I.**
 "Superconductors : Past, Present and Future"
- 8 **Dr A Butler, St. Andrews**
 "Keeping healthy with Nitric Oxide"
- 15 **Dr A D Gee, London**
 "Synthesis with Carbon-11 - The 20 Minute Challenge"
- 22 **Balloon Debate: Billingham/Hanson/Lawless/Walton**
 "That this house would discontinue forthwith research in all but one of the following areas - polymer chemistry, natural product chemistry, inorganic chemistry, fullerene chemistry"
- 29 **Dr W A Smeaton, London**
 "Chemistry, Industry and Politics during the French Revolution"

December

- 6 **Dr Alfred Bader, Founder of the Aldrich Chem. Company**
 "The Adventures of a Chemist Collector"

These lectures will be followed by tea and biscuits.



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

18 August 1993

Dr A R Bader
2961 North Shepard Ave
Milwaukee
Wis 53211
U.S.A.

Dear Alfred

As a follow-up to my 05 August letter, Kosmas Prassides has confirmed that the 4.15 slot on Monday 06 December is available for your lecture. Of the titles you suggest, both he and Richard Jackson feel that 'The Adventures of a Chemist Collector' would be more in the spirit of the Monday afternoon program. The final week of term is occupied by course assessments so that the undergraduate attendance may be somewhat lower than usual. Nevertheless graduate students and faculty will certainly be present and we will publicise your lecture as widely as possible.

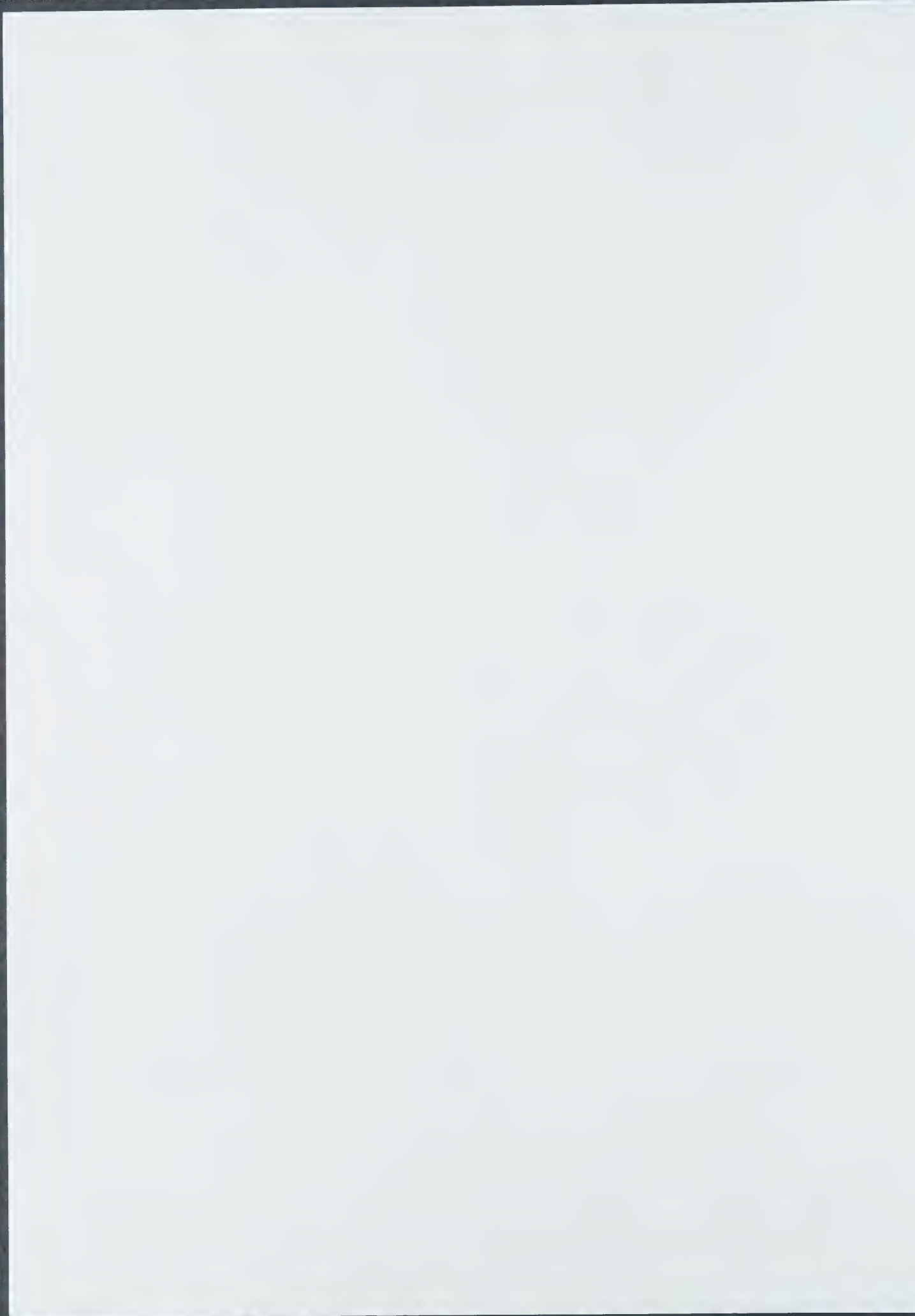
I am still endeavouring to contact the Art Historians and will pursue this matter when I return to Sussex in early September as I am about to leave for a one-week crystallography meeting in Beijing.

With kind regards.

David

D R M WALTON

cc: K Prassides



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

10 August 1993

Dr A Bader
2961 North Sheppard Avenue
Milwaukee
Wis 53211
USA

Dear Alfred

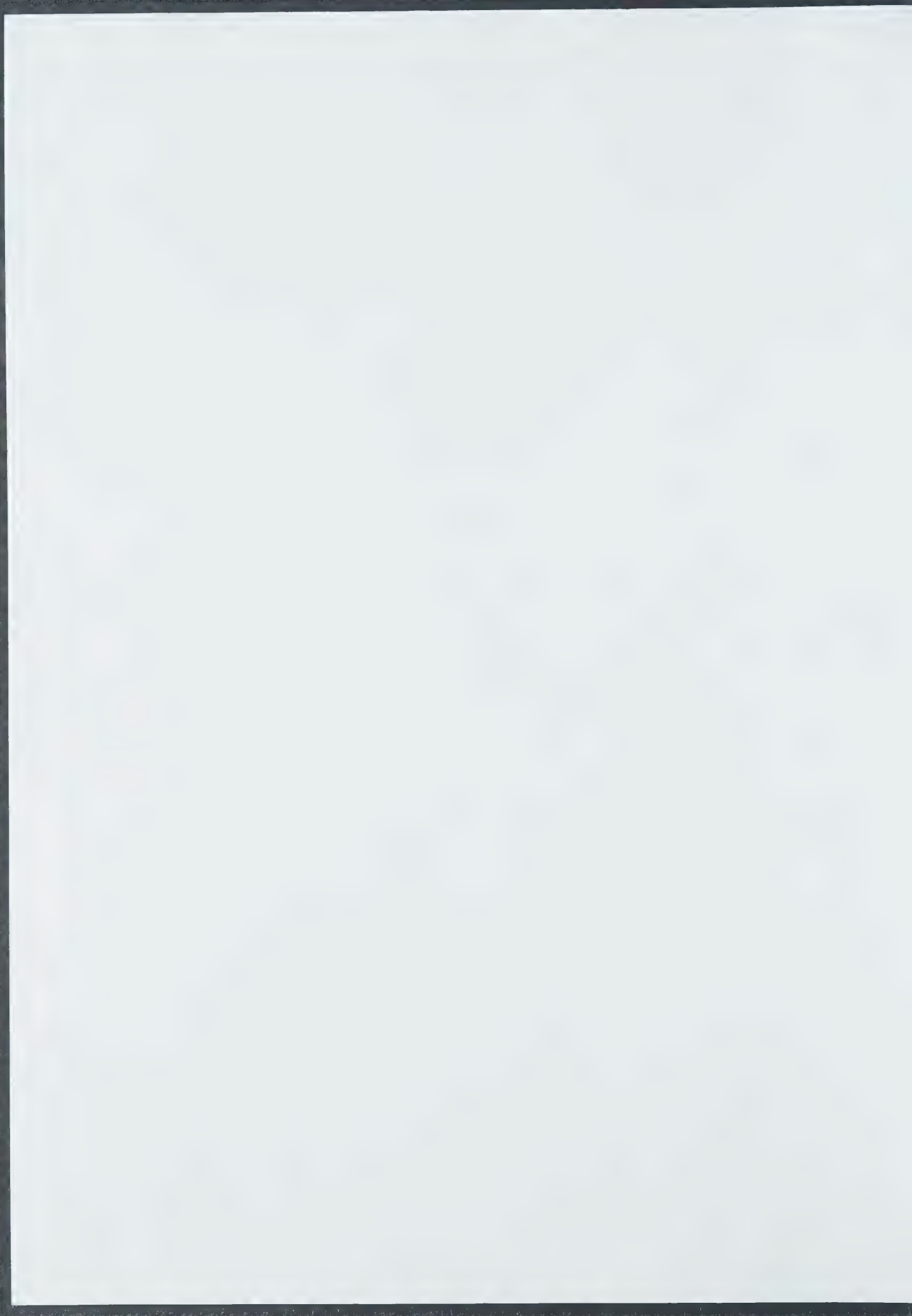
Douglas Young was as good as his word and obtained, from the RSC, the brief relating to the Loschmidt prize (copy enclosed). The work which I pioneered on polyacetylene synthesis would certainly fit the description, as set out in the first paragraph, because it was based primarily on exploiting kinetic observations. Unfortunately it was carried out over two decades ago and there is no way that the work I have done during the past five years would qualify in quite the same way, because it is almost entirely associated with fullerene chemistry. The problems here are that even if it were right to have a share of the project which is essentially Harry Kroto's creation (albeit derived from our collaborative work on cyanopolyynes) - which I would not wish to seek at this stage, the third member of the team (Roger Taylor) would very necessarily also have to be nominated. I assume that the Loschmidt prize cannot go to two persons at the same time.

Once again I thank you very much for your kind suggestion, but there appears to be no way forward.

With best regards.

A handwritten signature in cursive script, appearing to read 'D R M Walton', with a long horizontal line extending to the right.

D R M WALTON



Dr. Alfred R. Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

August 6, 1993

Dr. Willie Motherwell
Department of Chemistry
Imperial College
London SW7 2AY
England

Dear Willie:

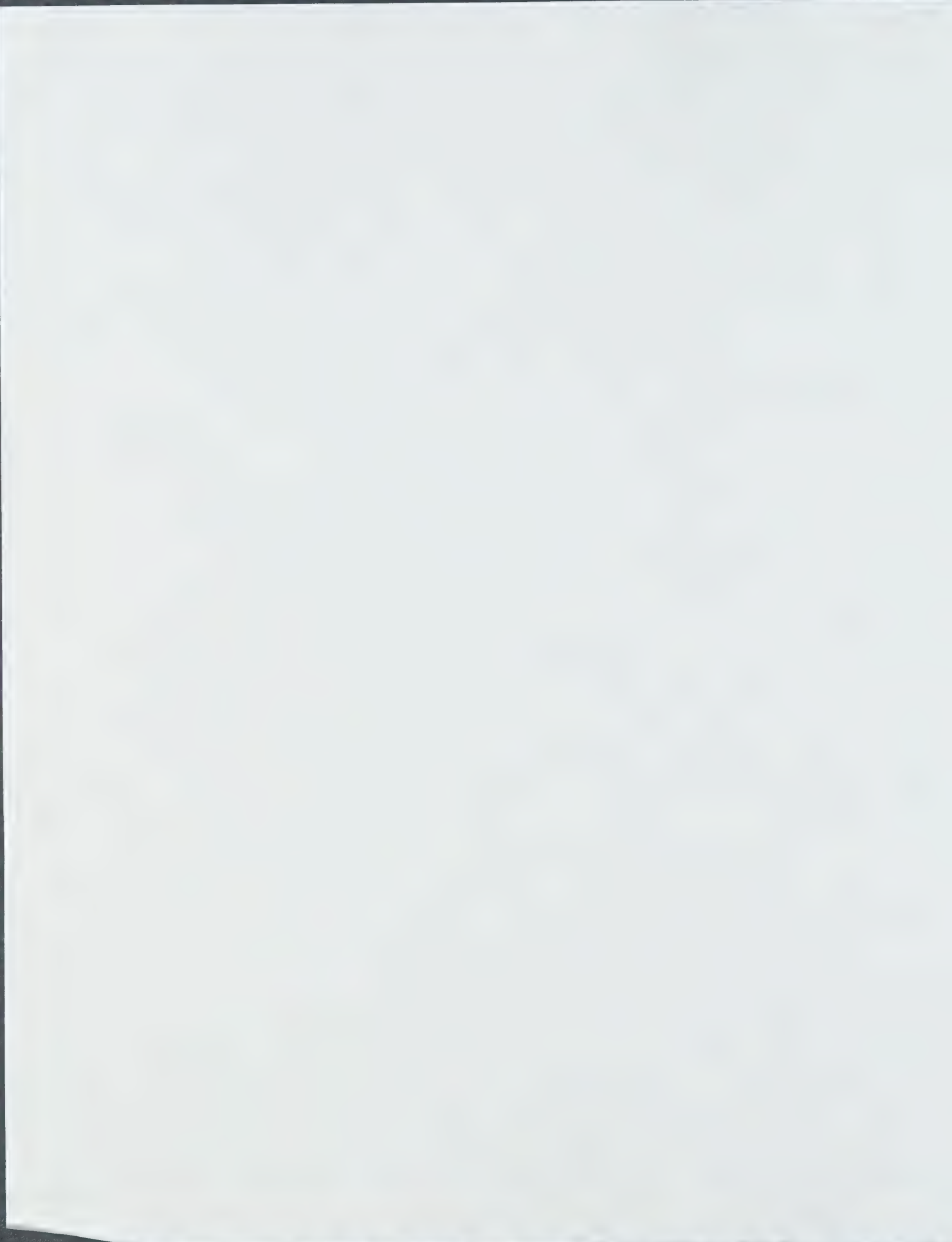
As you will see from the enclosed copy of my letter to Robin Clark, I am really concerned about the way UCL is trying to recruit students for the Bader bursaries. Just look at the one-day schedule and you will see that there is very little time for the staff to get to know the students and vice versa. If only they could have had two days with the second day concentrating on getting to know the students they would surely have had more applicants.

I would just like to confirm that I would like to send to the University College London Friends and Alumni Association, £10,000 to be used entirely at your discretion to help students. There should be no acknowledgement and no accounting. However, as you will see from the enclosed copy of letter from Michael Freeman to Robin Clark, I can use this gift as a U.S. tax deduction only if the gift is given to the friends organization. I have asked Robin Clark for his assurance that the funds will go entirely to you, and the university will not charge overhead.

Isabel and I really look forward to seeing you in your new quarters in November.

Fond regards from house to house,

Enclosures
c: Prof. Steven V. Ley



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

05 August 1993

Dr A R Bader
2961 North Shepard Avenue
Milwaukee
Wis 53211
USA

Dear Alfred

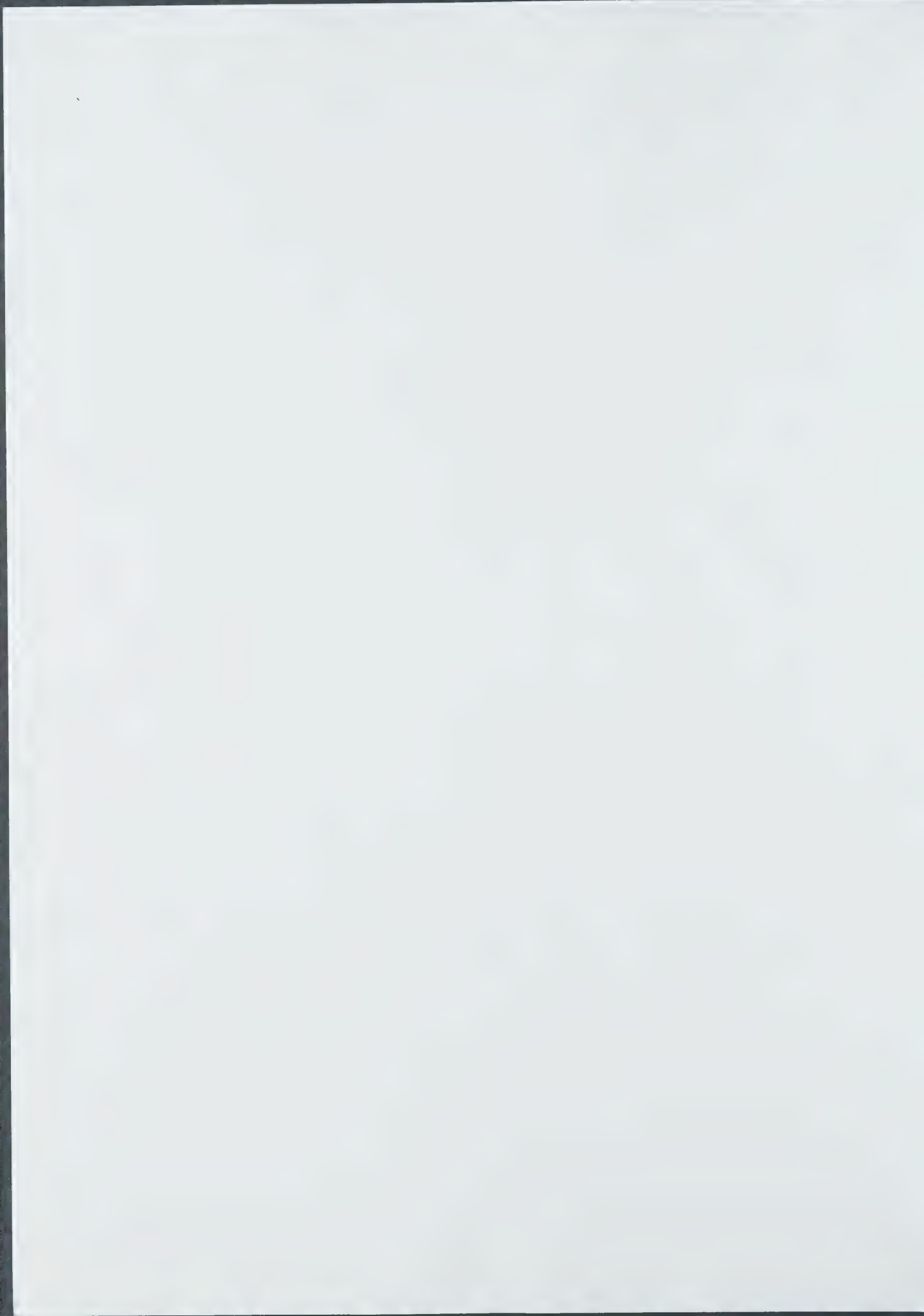
Thank you very much for your kind letter of 30 July. I am awaiting confirmation from my colleagues, Jackson and Prassides, regarding the arrangement for your lecture to the chemists on 06 December; 4.15 is the usual start time. I have now passed your suggested titles to them to choose from. The art historians are elsewhere at this time of the year, but I am chasing them. I will conform the plans with you as soon as possible.

I have spoken to Prof Young about the Loschmidt Award. He is very positive about the matter and will obtain the relevant details. I appreciate your position in this matter also.

Here is the latest from Chem. Britain.

With best regards

Yours ever
David Waller



Dr. Alfred R. Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

July 30, 1993

Dr. David R. M. Walton
School of Chemistry & Molecular Sciences
University of Sussex
Falmer, Brighton BN1 9QJ
England

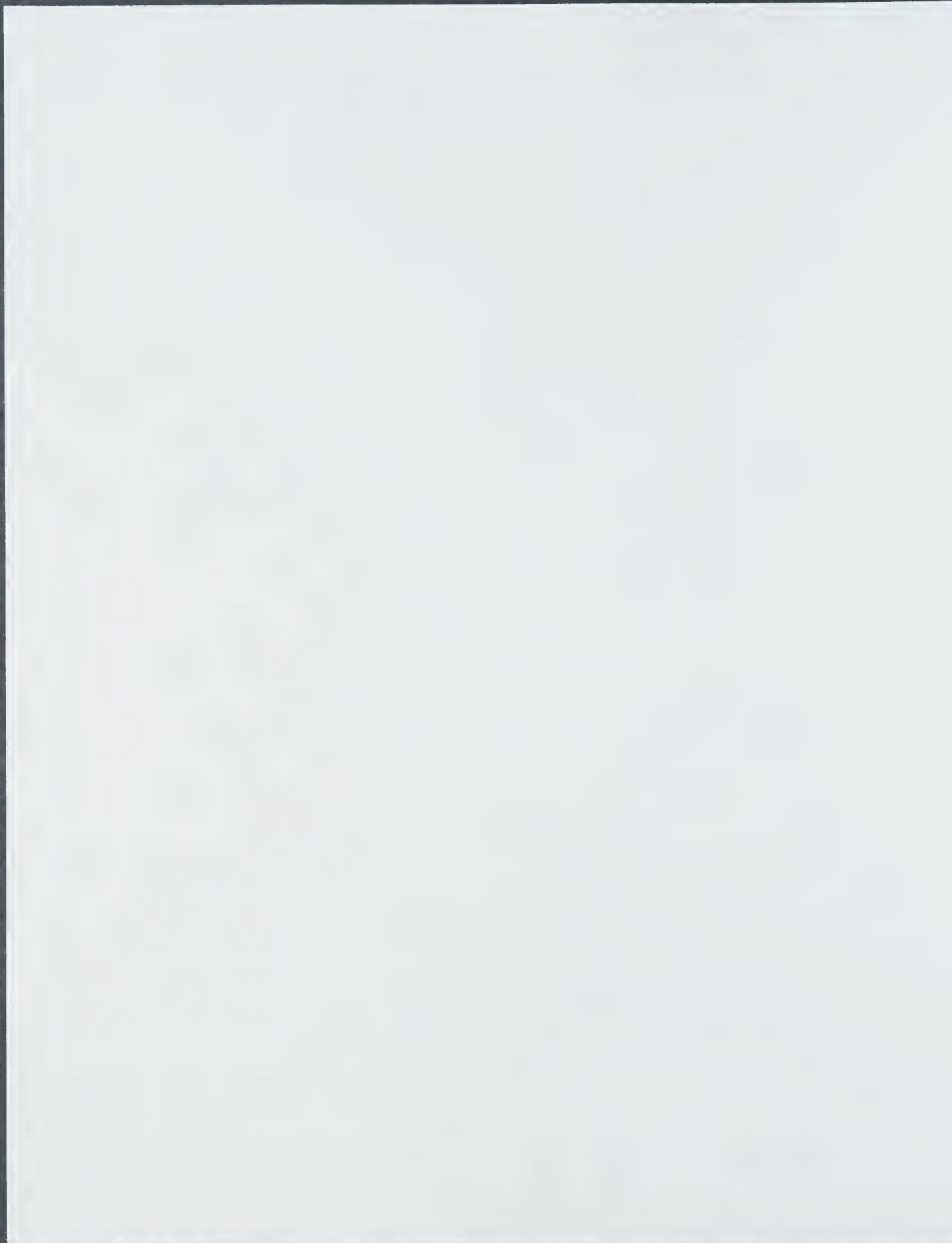
Dear David:

It was great to be able to spend a few hours with you and your associates on the 19th of July, and Isabel and I already look forward to being with you again on the 6th of December. I would be happy to give two or three talks, the one on chemistry could be entitled "Loschmidt Revisited" and then there would be a talk bridging chemistry and art history entitled "The Adventures of a Chemist Collector" and a third talk, purely art history, entitled "The Bible through Dutch Eyes."

The Loschmidt Award is given every two years by the Royal Society of Chemistry, and I believe that they send out invitations for applications. I believe that some academic would have to propose you, and I believe that Prof. Young knows the details. The award is limited to academics who do not have a professorial chair, and certainly your work is just the kind of work for which the award is intended. However, the suggestion cannot come from me, as you will understand.

Fond regards.

As always,



Dr. Alfred R. Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

July 30, 1993

Dr. Jim Hanson
School of Chemistry & Molecular Sciences
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Jim:

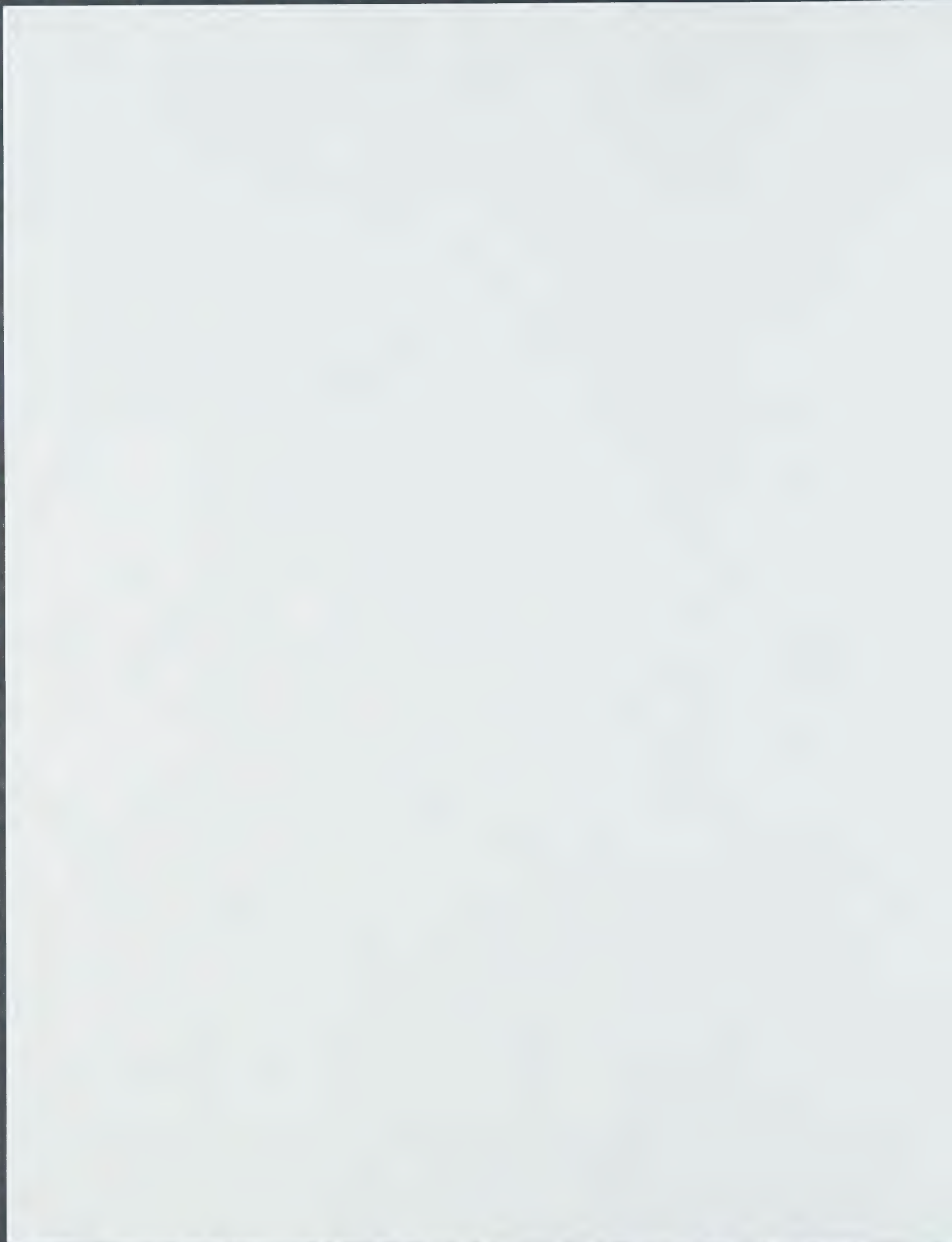
It was great being able to spend a few hours with you and your associates. I really look forward to my visit with your department again on December 6th.

Your work on the trimer and the tetramer of anthranilic acid is really interesting, and both are compounds which should be considered for listing at Aldrich. Of course, the key is improving the yields and being able to separate the two compounds. When you have that done, I will ask you to share the details with Aldrich.

It was such a pleasure to be able to meet your three students who received the Bader Awards. Thank you for your help.

Best wishes.

Sincerely,



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

Dr A & Mrs I Bader
52 Wickham Avenue
Bexhill on Sea
East Sussex
TN39 3ER

22 July 1993

It was a real pleasure to welcome both of you to Sussex again on Monday. I will keep a weather eye on how the direct contacts with John Poland and others develop in the chemistry context and write from time to time.

I will endeavour, Alfred, to build a lecture program for you here on Monday 06 December, and firm it up as and when I can make contact with my 'Arts' colleagues. I note that you require two projectors for each lecture. Monday at 4.15 during term time is the regular slot for chemistry lectures; this will be the focal point.

Thank you in particular for putting in the Sri Lanka plug. This was my first meeting with Gordon Conway and from the few comments which were exchanged I suspect we see eye to eye on many aspects of the vexed questions associated with 'aid' programs. We are due to meet in September for a discussion about the Island and its problems.

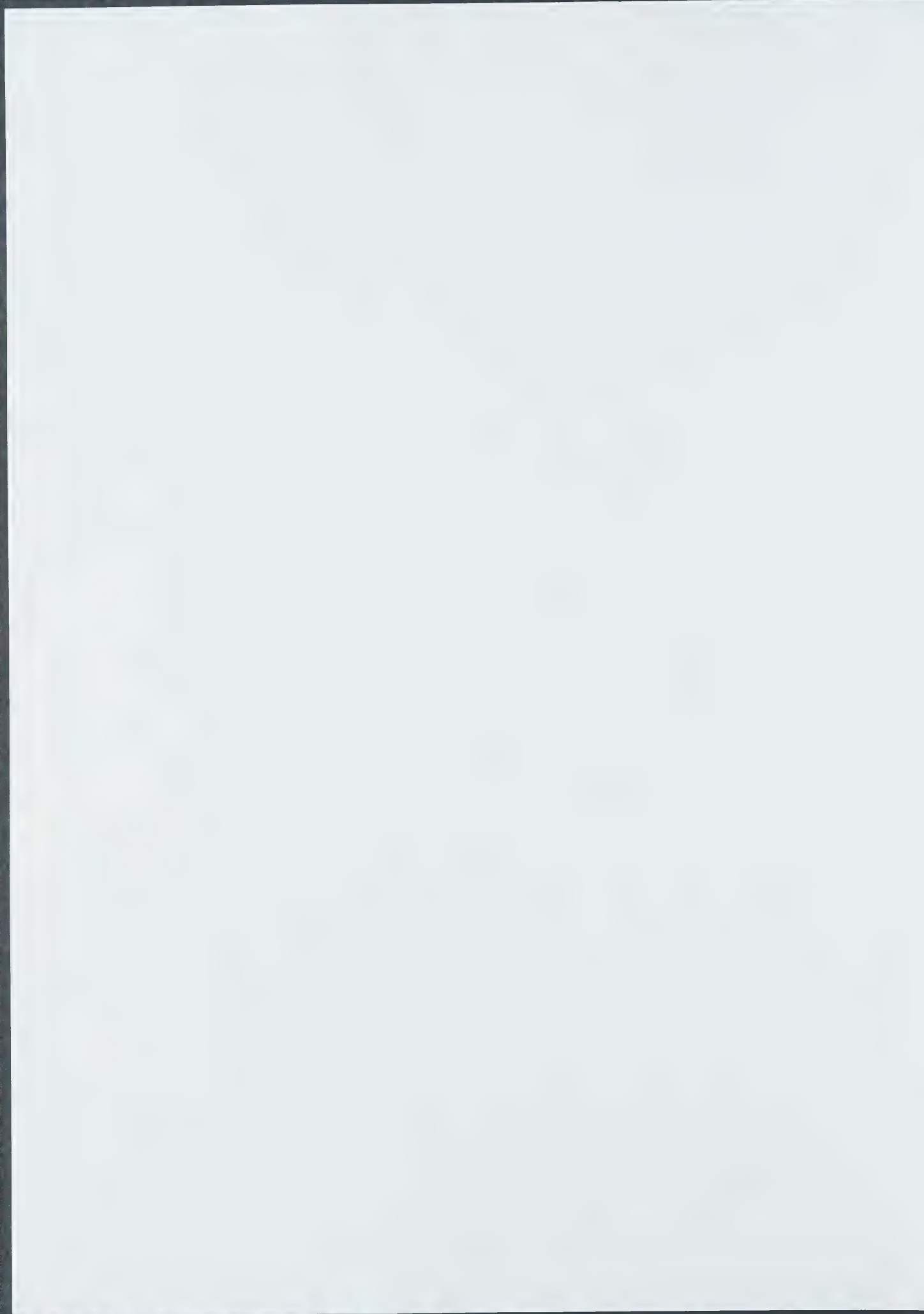
It was very kind of you to make the suggestion in connection with the Lös Schmidt award. What should I do? Is there some application form which I should complete, or should I supply you with a brief synopsis of my contributions to synthesis? Please let me know, at your convenience.

I will be here throughout the summer except for the last week in August (Beijing Crystallography Conference) and possibly in early October (one week visit to Poland - my first for 19 years!).

With best regards.

D R M WALTON

PS I will forward signed copies of Harry's Angewandte Chemie article (English und Deutsch) to Milwaukee. If he gets the Nobel Prize there will become collectors items in due course, of that I have no doubt. I will also send you a reprint of the Nature article (Taylor and Walton).



P/5/20
UNIVERSITY OF



SUSSEX
AT BRIGHTON

The Vice-Chancellor

Sussex House
University of Sussex
Falmer, Brighton BN1 9RH

Telephone: (0273) 606755
Direct Line: (0273) 678253
Fax: (0273) 678335

May 10, 1993

Dr Alfred Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211
U.S.A

Dr Dr. Bader

Thank you for your letter of April 28th. I hope this reply reaches you before you leave Milwaukee.

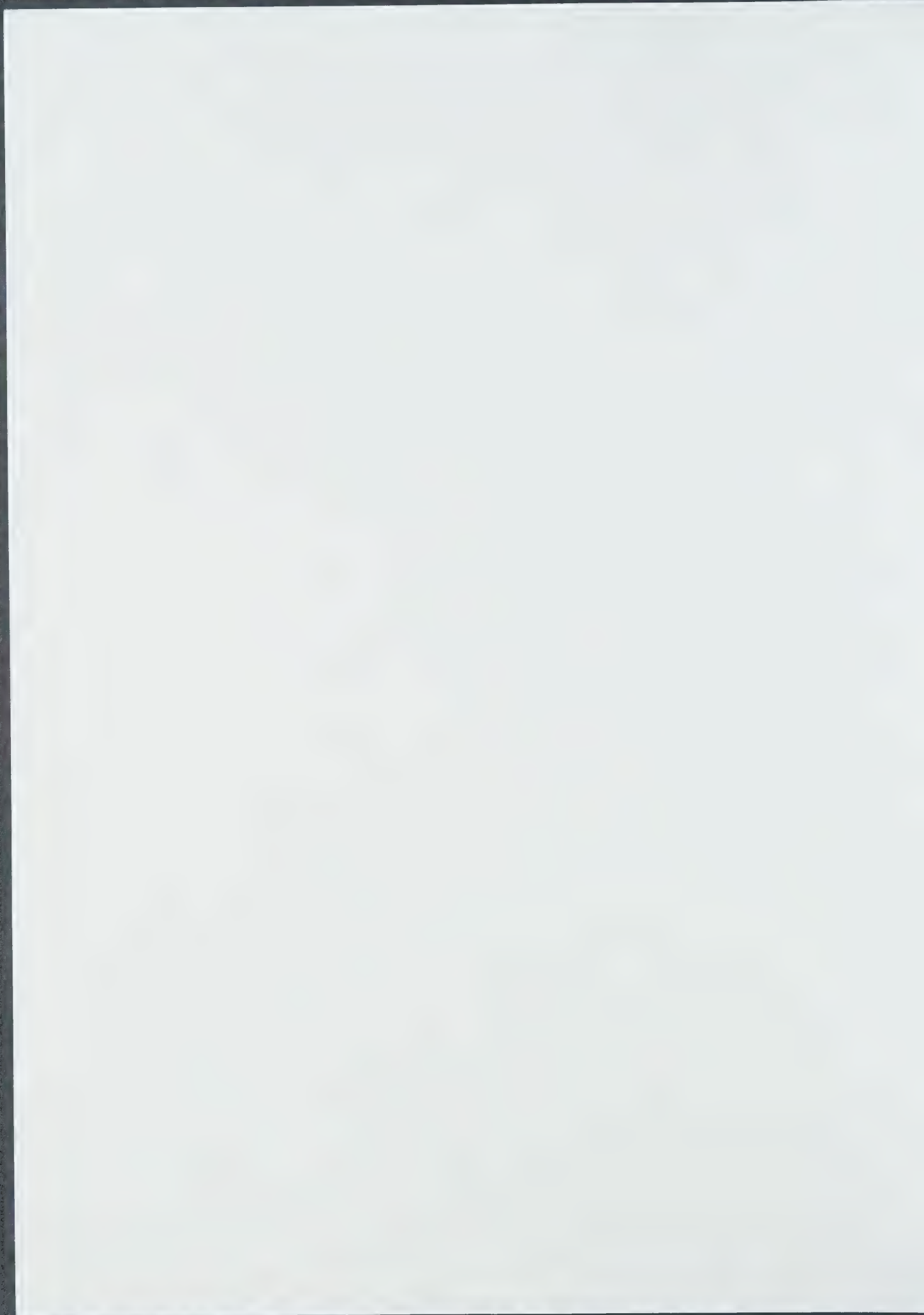
We would be delighted to invite you and your wife for dinner at Swanborough Manor in the week of June 28th. The following dates are free: Tuesday June 29, Thursday July 1 and Friday July 2 - a Friday evening is probably more convenient for most people.

We are then away for a period. After we return Saturday July 17 is free.

I look forward to hearing from you.

Sincerely

Professor Gordon Conway.



Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

April 28, 1993

Professor Gordon Conway
The Vice Chancellor
University of Sussex
Sussex House
Falmer, Brighton BN1 9RH
England

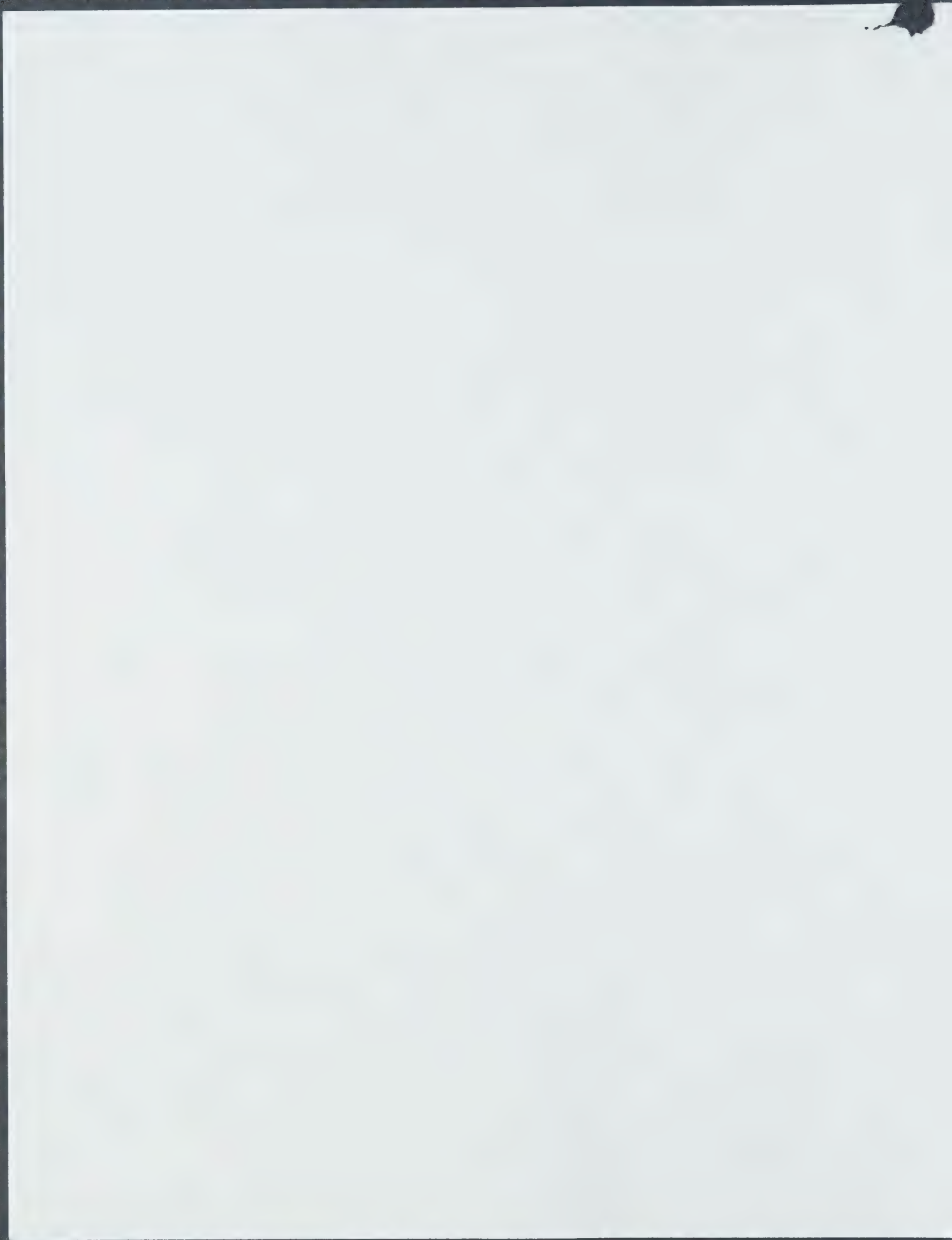
Dear Professor Conway:

In response to your kind letter of April 16th, Isabel and I plan to arrive in Bexhill on May 21st, but will be there just for a couple of days before going on a lecture tour to Scotland, and then to the Continent.

However, we will be back in Bexhill and London between the last week of June and July 26th. We very much hope to have a chance to meet you at the end of June or early in July.

All good wishes.

Sincerely,



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

23 April 1993

Dr A Bader
2961 North Shepard Avenue
Milwaukee
Wis 53221
USA

Dear Alfred

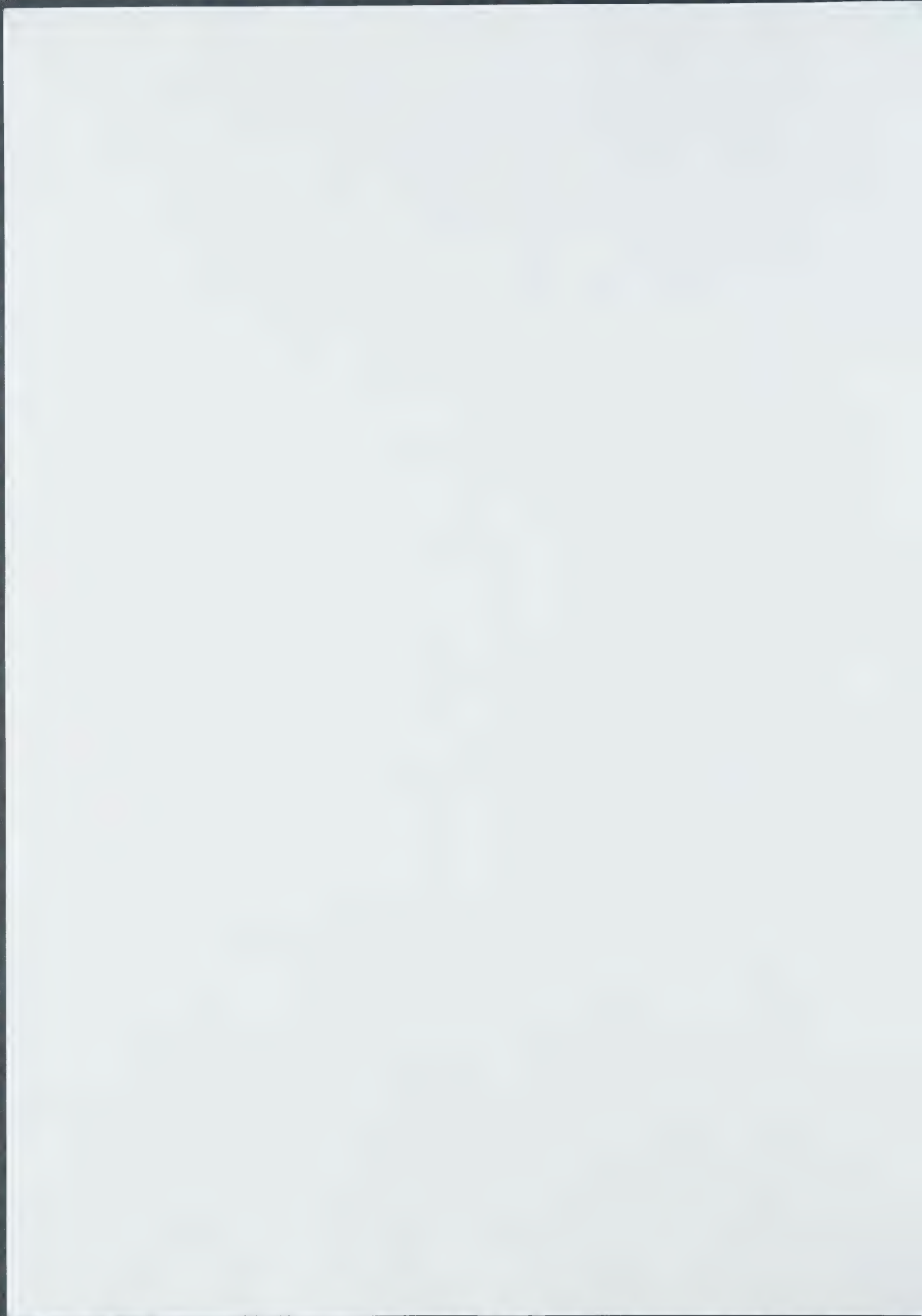
Thank you very much for your 20 April letter and for your comments about Loschmidt vis-a-vis Vogl. I will show your letter to Harry.

A propos your summer visit to the UK, I will be away from Sussex during the following dates: 8-11 June; 21 June - 03 July (Santa Barbara Fullerene Meeting combined with a few days holiday with my son); 10-21 July (Sri Lanka). Otherwise I will be here. Please give me a call; a message can always be left with Jean Hudson (678326). Are you still planning to meet Vice Chancellor Conway in late May?

With best regards, also to Isabel.

A handwritten signature in cursive script, appearing to read 'D R M Walton'.

D R M WALTON



Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

April 20, 1993

Dr. David R. M. Walton
School of Chemistry & Molecular Sciences
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear David:

Thank you so much for your letter of April 5th and the interesting correspondence between Professor Kroto and Dr. Kratschmer.

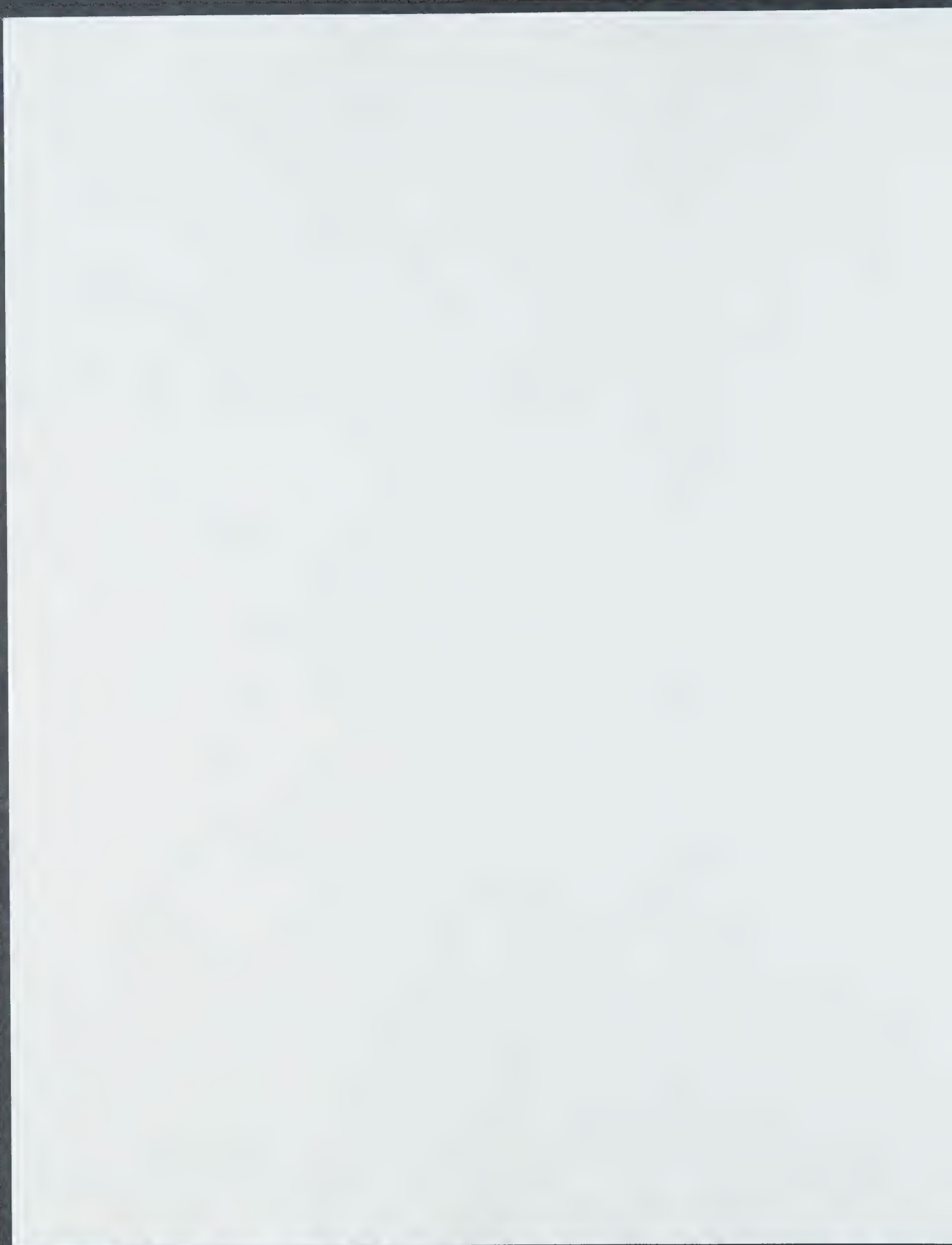
I know the very good portrait of Loschmidt in Professor Vogl's office, but I have never met him and find his comments about Loschmidt quite astounding.

Hence, I will visit Professor Vogl when next I am in Vienna in the middle of June and will then assure him that Loschmidt's contribution to organic chemistry is not a hoax.

I much look forward to seeing you this summer, probably best in late June or early July. We will be in Bexhill for just a couple of days at the end of May, but I am then giving some lectures in Durham, Edinburgh and Glasgow and will go to the continent thereafter.

All good wishes.

As always,



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The Vice-Chancellor

Sussex House
University of Sussex
Falmer, Brighton BN1 9RH

Telephone: (0273) 606755
Direct Line: (0273) 678253
Fax: (0273) 678335

April 16, 1993

Dr Alfred Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211
U.S.A

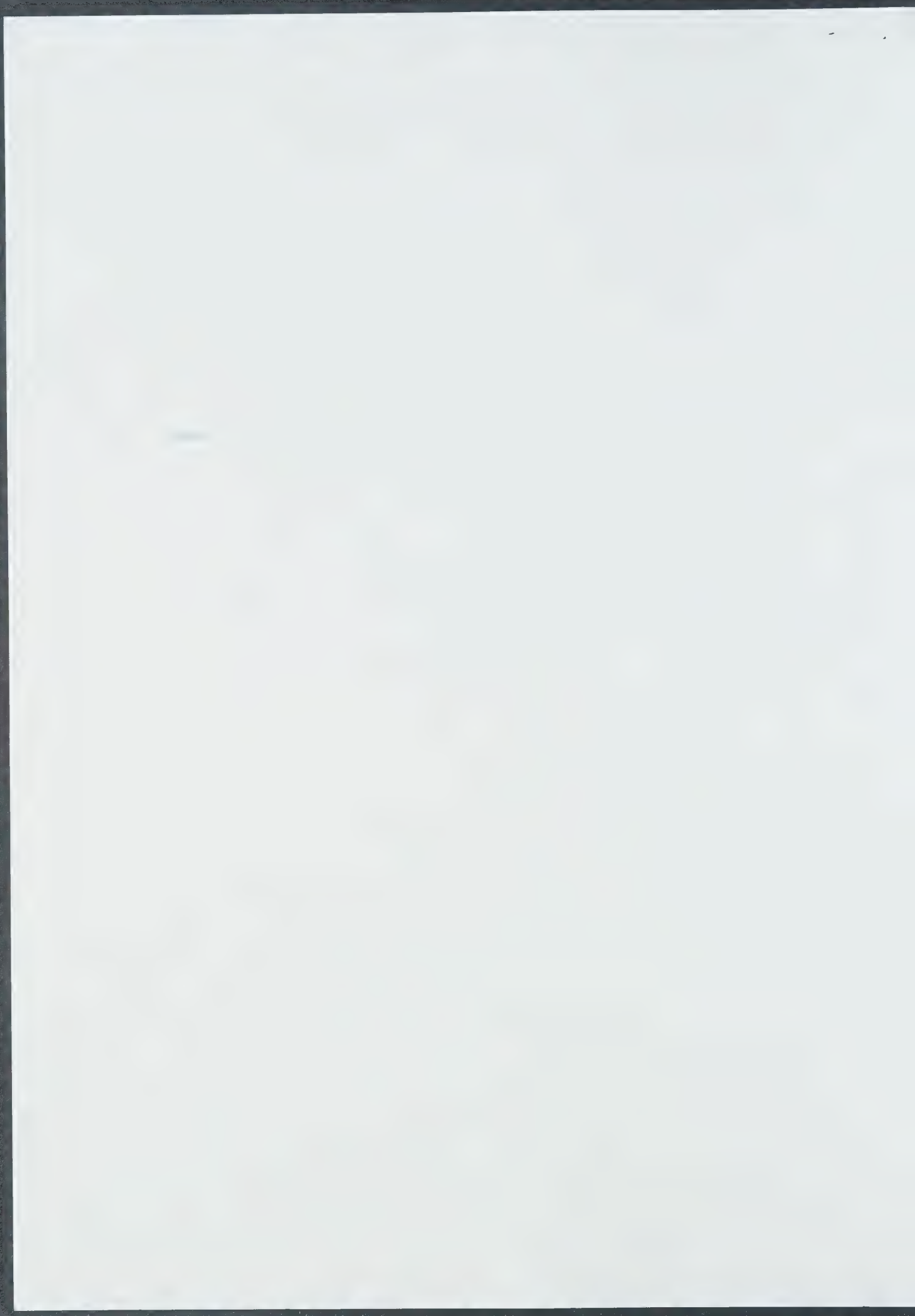
A handwritten signature in blue ink, appearing to read "Alfred Bader".

When you wrote in February you indicated you might be in Bexhill in May. Do you have any firm dates? If so I and my wife would be delighted if you and your wife could come to dinner at Swanborough Manor.

I should add that we have had very useful meetings with David Smith and Maurice Yeates of Queens University, and I believe we can establish a productive relationship.

A handwritten signature in blue ink, appearing to read "Gordon Conway".

Professor Gordon Conway.



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

05 April 1993

Dr A Bader
Suite 622 Astor Hotel
924 East Juneau Avenue
MILWAUKEE
Wis 53202

Dear Alfred

Harry met Wolfgang Kratschmer (of Fullerene fame) a few weeks back. Kratschmer has just written enclosing an article about Loschmidt by Boltzmann. I am afraid I have no more details of the book, other than what is in the photocopy. We thought you would like to see both items; here they are.

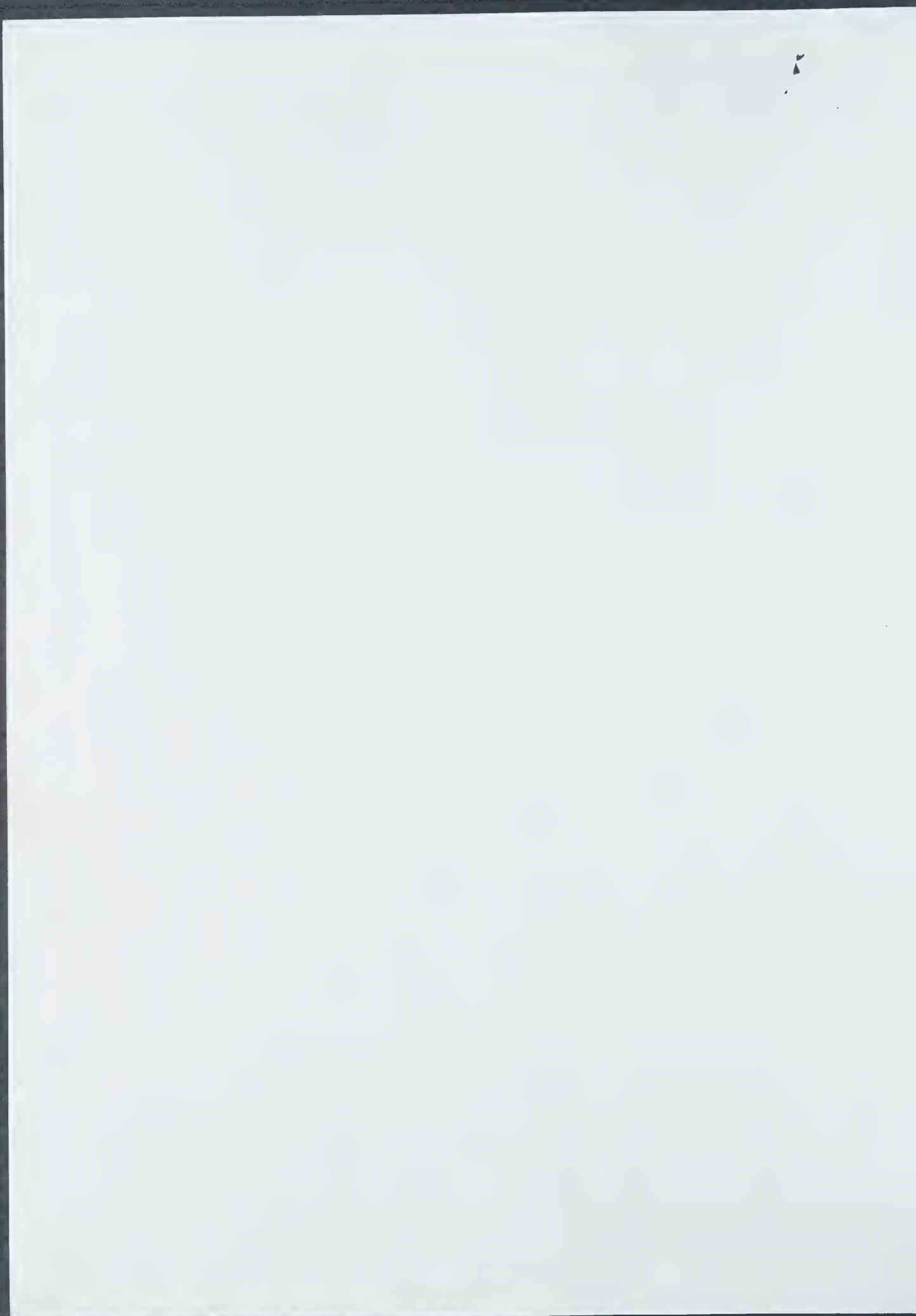
Looking forward to your visit in the latter part of May.

Trusting you and Isabel are well.

Yours ever

A handwritten signature in cursive script, appearing to read 'D R M Walton', with a long horizontal line extending to the right.

D R M Walton



2

Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

February 10, 1993

Professor Gordon Conway
The Vice-Chancellor
University of Sussex
Sussex House
Falmer, Brighton BN1 9RH
England

Dear Professor Conway:

Thank you for your gracious letter of January 15th.

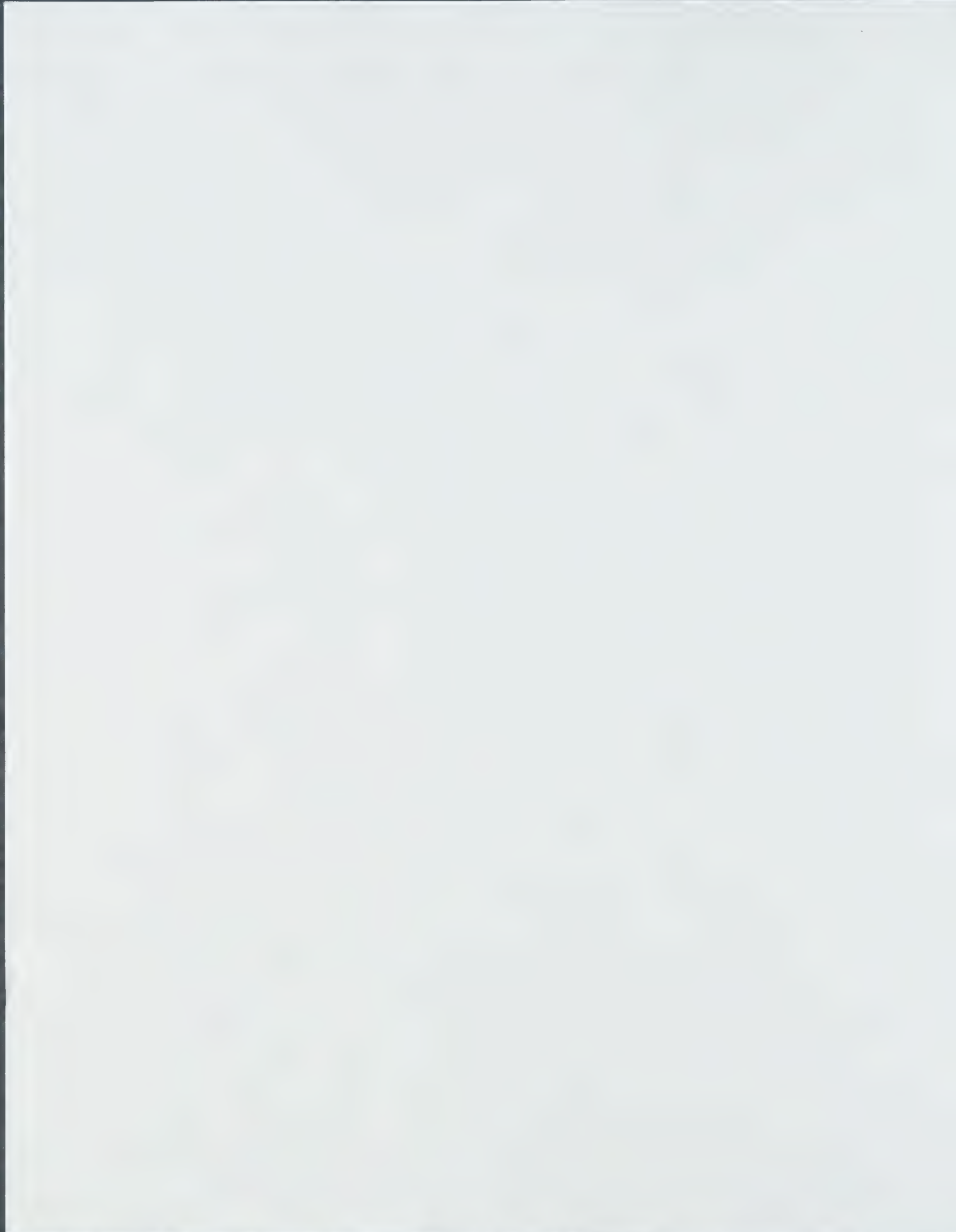
Isabel and I very much hope that the acquisition of Herstmonceux Castle will help not only Queen's University, but also the University of Sussex, and the local community.

Isabel and I stay at our little home in Bexhill every May, July, November, and December and very much hope to have a chance to meet you personally during our next visit.

Best regards.

Sincerely,

c: Principal David Smith
Dr. David Walton



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The Vice-Chancellor

Sussex House
University of Sussex
Falmer, Brighton BN1 9RH

Telephone: (0273) 606755
Direct Line: (0273) 678253
Fax: (0273) 678335

January 15, 1993

Dr Alfred Bader
Suite 622, Astor Hotel
924 East Juneau Avenue
Milwaukee
Wisconsin 53202
U.S.A

Dr David Walton

Dr David Walton has told me of your long association with the University of Sussex, and of your generous help to our Chemistry faculty.

I have only recently become Vice-Chancellor (after a period as Professor of Environmental Technology at Imperial College, and then four years as head of The Ford Foundation in New Delhi), and am endeavouring to make the acquaintance of friends of the University.

As I expect Dr Walton has told you, our chemists achieved a 5 (top) ranking in the recent nationwide research ranking, and the University as a whole has come 10th in the UK. As you may imagine, to achieve the top ten league for research has provided a major boost to morale.

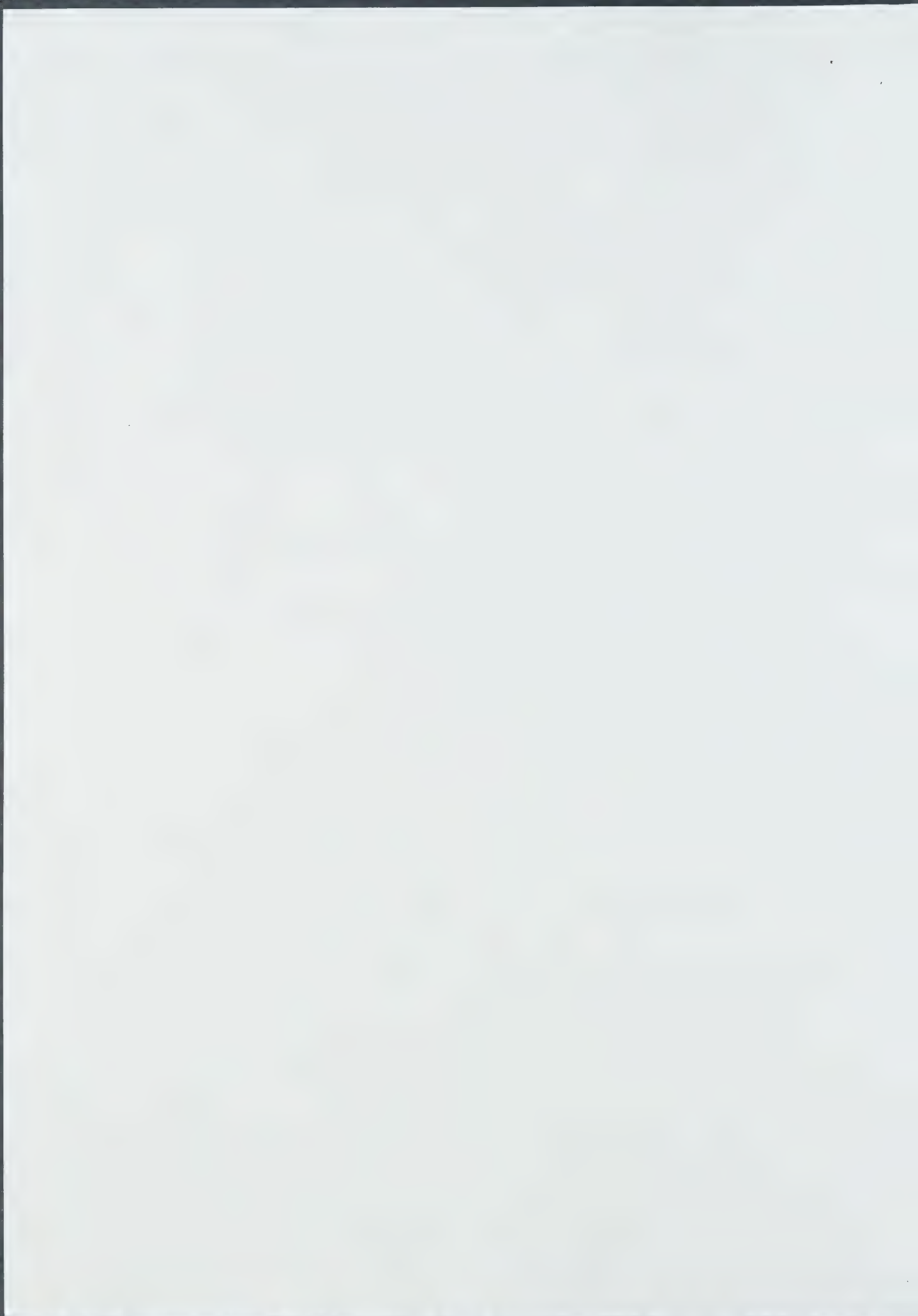
I understand that you may be visiting Sussex later in the year, and I would be delighted to meet you if your schedule allows.

I have enclosed a copy of my letter to Dr David Smith offering any help as appropriate to the plans he is developing for Herstmonceux Castle.

Smith

Gordon Conway

Professor Gordon Conway.





UNIVERSITY OF SUSSEX

From the Vice-Chancellor
PROFESSOR GORDON CONWAY

Mr David Smith
Principal
Queen's University
Kingston, Ontario
K7L 3N6 CANADA

Falmer
Brighton
BN1 9RH
Tel: Direct Line (0273) 678253
University Switchboard (0273) 606755
Fax: (0273) 678335

January 14, 1993

Dear Mr Smith,

Herstmonceux Castle

I was very interested to learn of your purchase of Herstmonceux Castle with the aid of a generous donation from Dr Alfred Bader.

It is clearly a challenging and exciting prospect. My purpose in writing is to signal our own willingness to participate in the developments you have in mind, should our interests and expertise be appropriate.

I understand you will be appointing an academic director. When he or she is in place we would be pleased to arrange a meeting.

I have been newly appointed as Vice-Chancellor here (after a period as Professor of Environmental Technology at the Imperial College of Science, Technology and Medicine, and the last four years as head of The Ford Foundation in India), and I am still in the process of familiarising myself with our world-wide network of contacts. We have an active "year abroad" and exchange programme with North American universities - some 350 students come here each year from North America. But I believe so far we have not had links with Queen's. (Our main Canadian link is with Waterloo).

I hope your new physical presence in Sussex will be the occasion for a future relationship.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Gordon Conway".

Professor Gordon Conway
Vice-Chancellor

UNIVERSITY OF



SUSSEX
AT BRIGHTON

School of Cultural and Community Studies

Arts Building
University of Sussex
Falmer, Brighton BN1 9QN

Telephone: (0273) 606755
Fax: (0273) 678466

Mr Alfred Bader
The Astor Hotel
Suite 622
924 East Juneau Avenue
Milwaukee
Wisconsin 53202
U.S.A.

14 October 1993

Dear Mr Bader,

I am sorry that I had not been informed of your visit to the University on 6th December when I wrote to you a few days ago suggesting other dates to talk to the art historians. The art historians can equally arrange for your talk on the 6th December and I have already spoken to the School of Chemistry and Molecular Sciences about this. 'The Bible through Dutch eyes' will also suit us just as well. David Walton's office will forward details and final arrangements to you. Once more, let me say how much we look forward to meeting you.

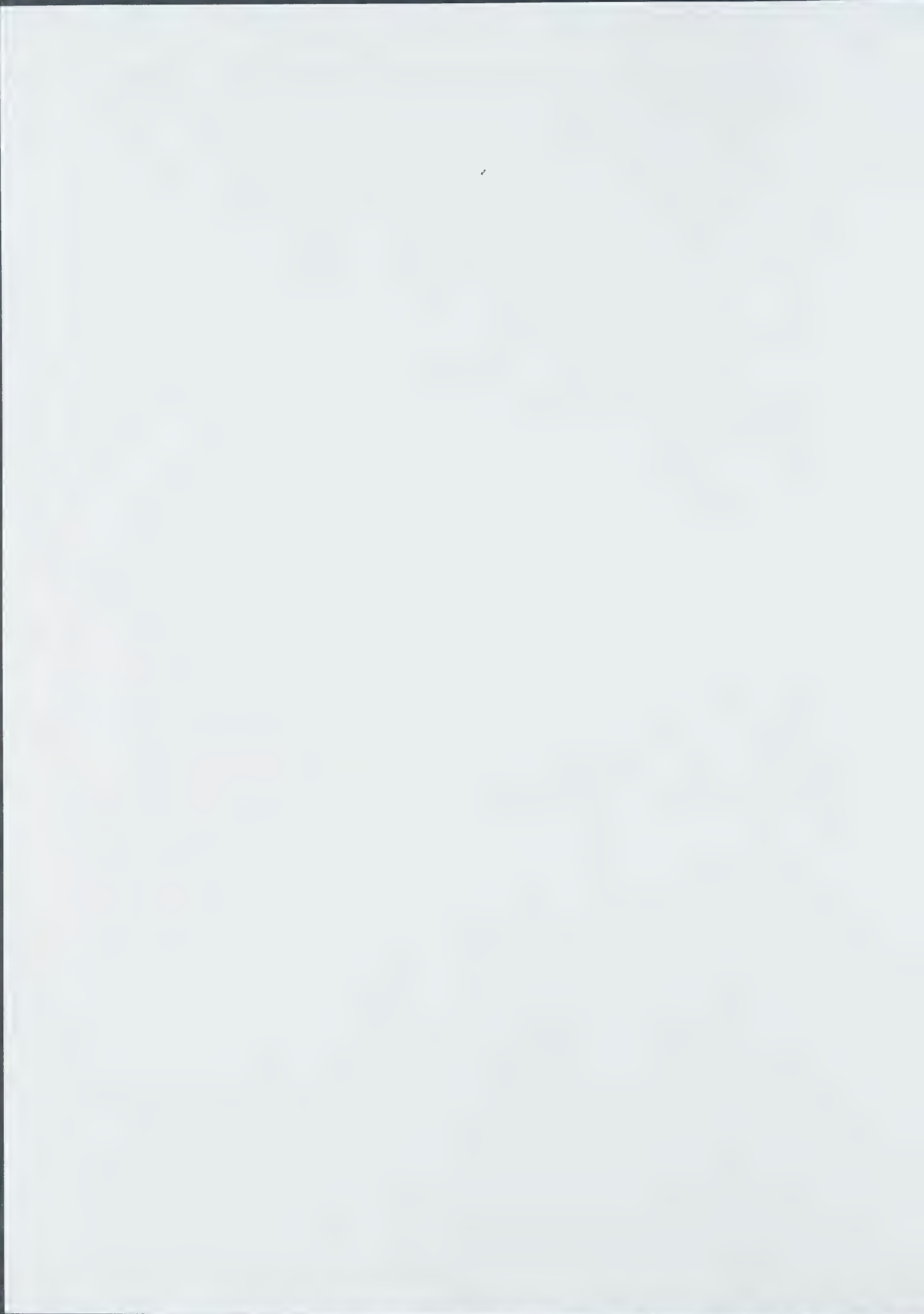
Yours sincerely,

A handwritten signature in cursive script that reads "Maurice Howard".

Dr Maurice Howard, Senior Lecturer
and Chair, History of Art Graduate Division

Dean: T. J. Diffey, B.A., Ph.D.

Sub-Deans: (Student Affairs) John Jacobs, M.A. (Academic Affairs) Brian M. Short, B.A., Ph.D.





ALFRED BADER FINE ARTS

DR. ALFRED BADER

ESTABLISHED 1961

October 20, 1993

Dr. Maurice Howard, Chair
Graduate Division, History of Art
University of Sussex
Falmer, Brighton BN1 9QN
England

Dear Dr. Howard:

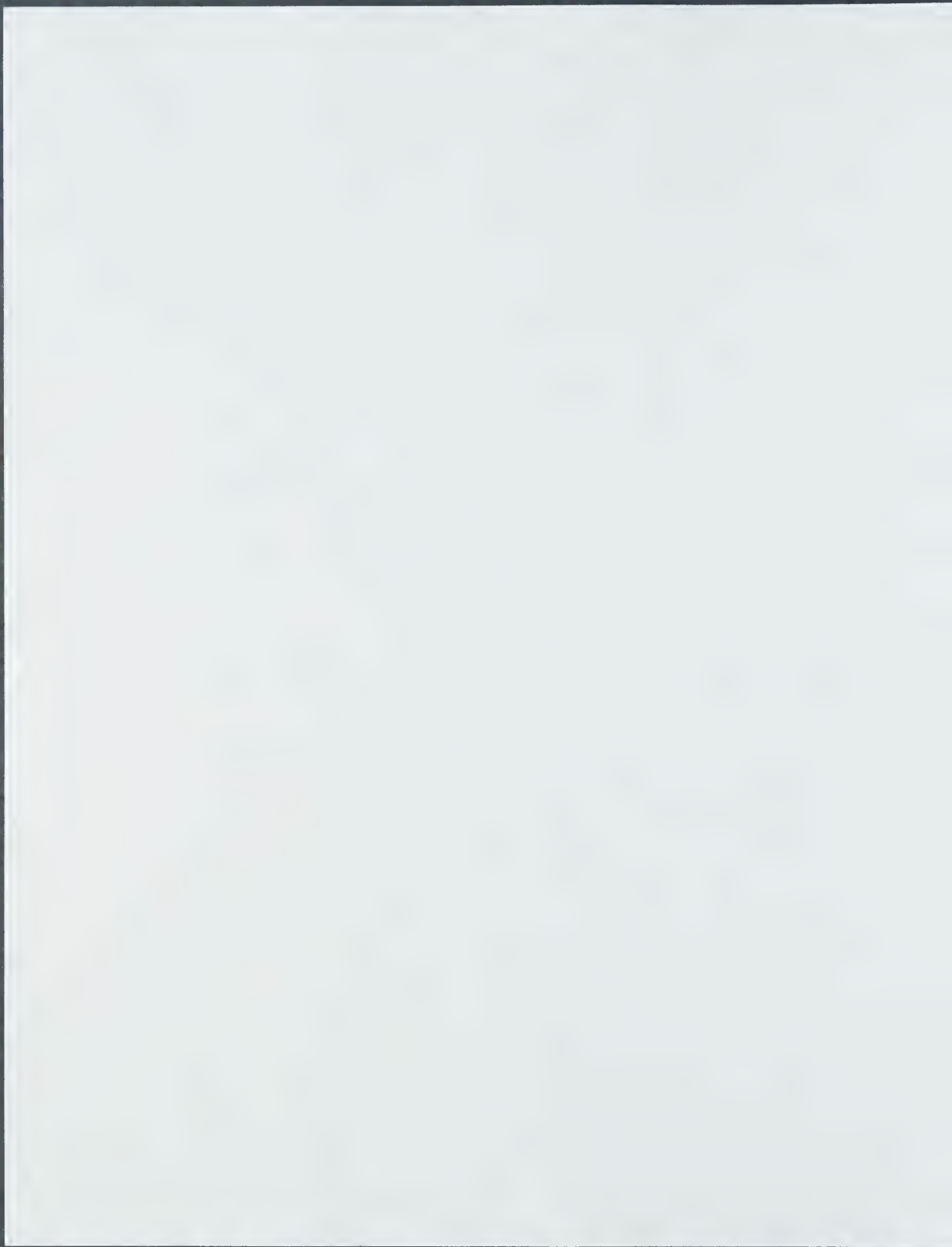
I am so happy to have your two letters, particularly that of October 14th, advising me that Monday, December 6th, will be satisfactory for "The Bible through Dutch Eyes" talk. The other talk requested by Dr. Walton is entitled "The Adventures of a Chemist Collector," and while requested for chemistry, it deals 95% with art and 5% with chemistry. I do hope that some of your students may want to attend that lecture, also.

Please coordinate the times for the two talks with Dr. David Walton. I believe that he has scheduled the chemistry talk for late afternoon so that the talk on the Bible in either the late morning or early afternoon would be fine.

For both talks I will need two projectors and two screens to show two slides simultaneously.

Sincerely,

By Appointment Only
ASTOR HOTEL SUITE 622
924 EAST JUNEAU AVENUE
MILWAUKEE WISCONSIN USA 53202
TEL 414 277-0730 FAX 414 277-0709



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

28 October 1993

Dr A R Bader
2961 North Shepard Ave
Milwaukee
Wis 53211

ET free

Dear Alfred

LECTURES AT SUSSEX - MONDAY 06 DECEMBER

I discovered about a fortnight ago that Sussex House/Arts had been in touch with you direct. Dr Maurice Howard has sent me a copy of your 20 October letter to him and plans are now well in hand for your projected visit, with Isabel, here on 06 December.

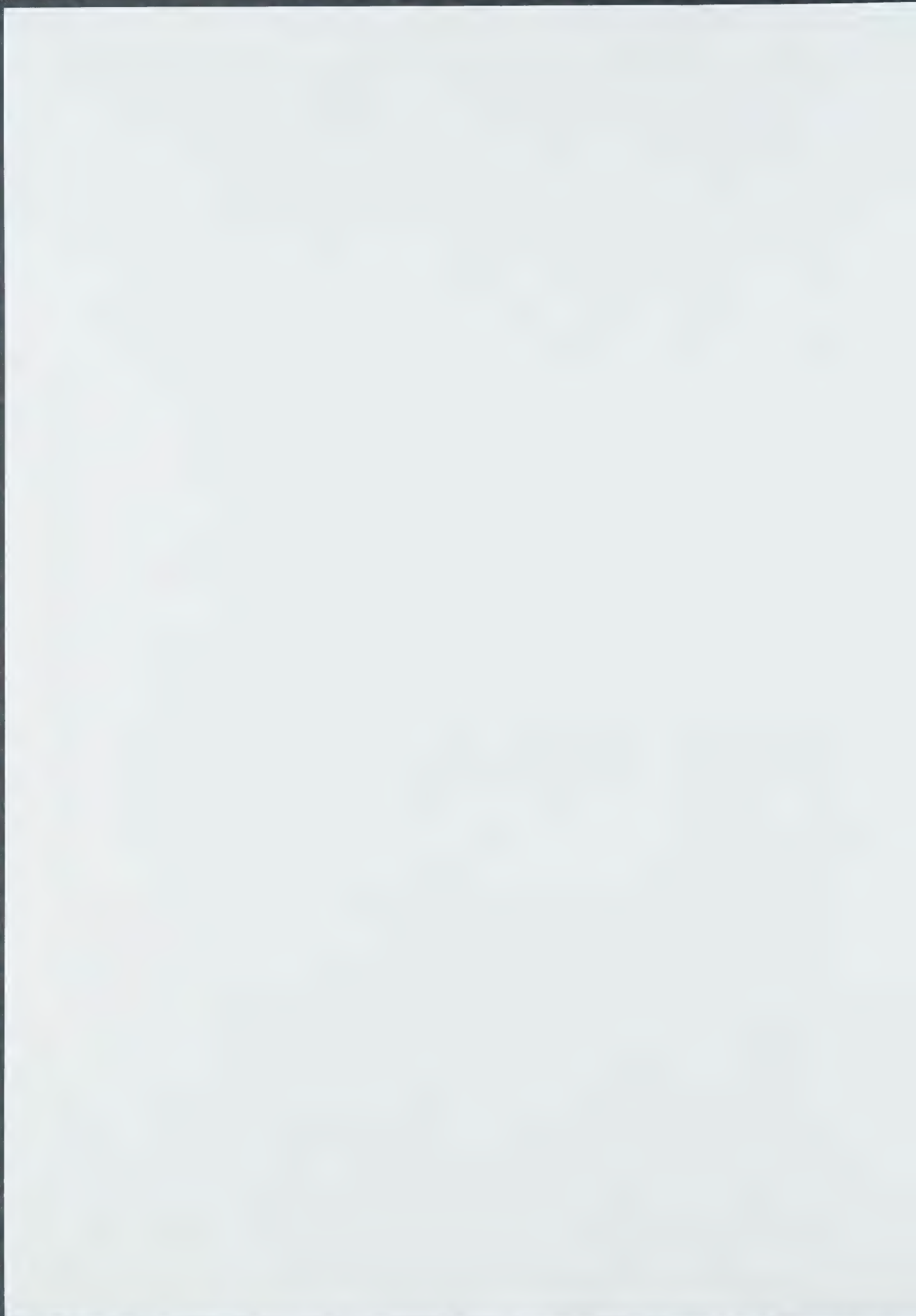
Maurice advises me that he has arrange for you to present your 'The Bible through Dutch Eyes' lecture at mid-day; lunch for a small group will follow. You can then spend the afternoon in MOLS and your second lecture (The Adventures of a Chemist Collector) will be at 4.15, the normal time for our Monday afternoon colloquia. Two projectors and two screens will be available at both venues.

I am not sure precisely who among your friends in MOLS will be here on the 6th, but I have alerted everyone to your visit. The two students who have been awarded the Bader Prize for this year will certainly be on hand and are looking forward very much to meeting you.

With best regards.

D R M WALTON

W *2/10 94*



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

09 December 1993

Dr and Mrs A R Bader
52 Wickham Avenue
Bexhill on Sea
East Sussex
TN39 3ER

A handwritten signature in cursive script, appearing to read "David Walton".

Thank you very much for all you did here on Monday. The two lectures were much appreciated, especially the afternoon session in MSLT, as is clearly apparent from the feedback from students and colleagues. I have never heard the students be so enthusiastic before, and I am sure you will be under pressure to return so that we can enjoy the 'other two' lectures.

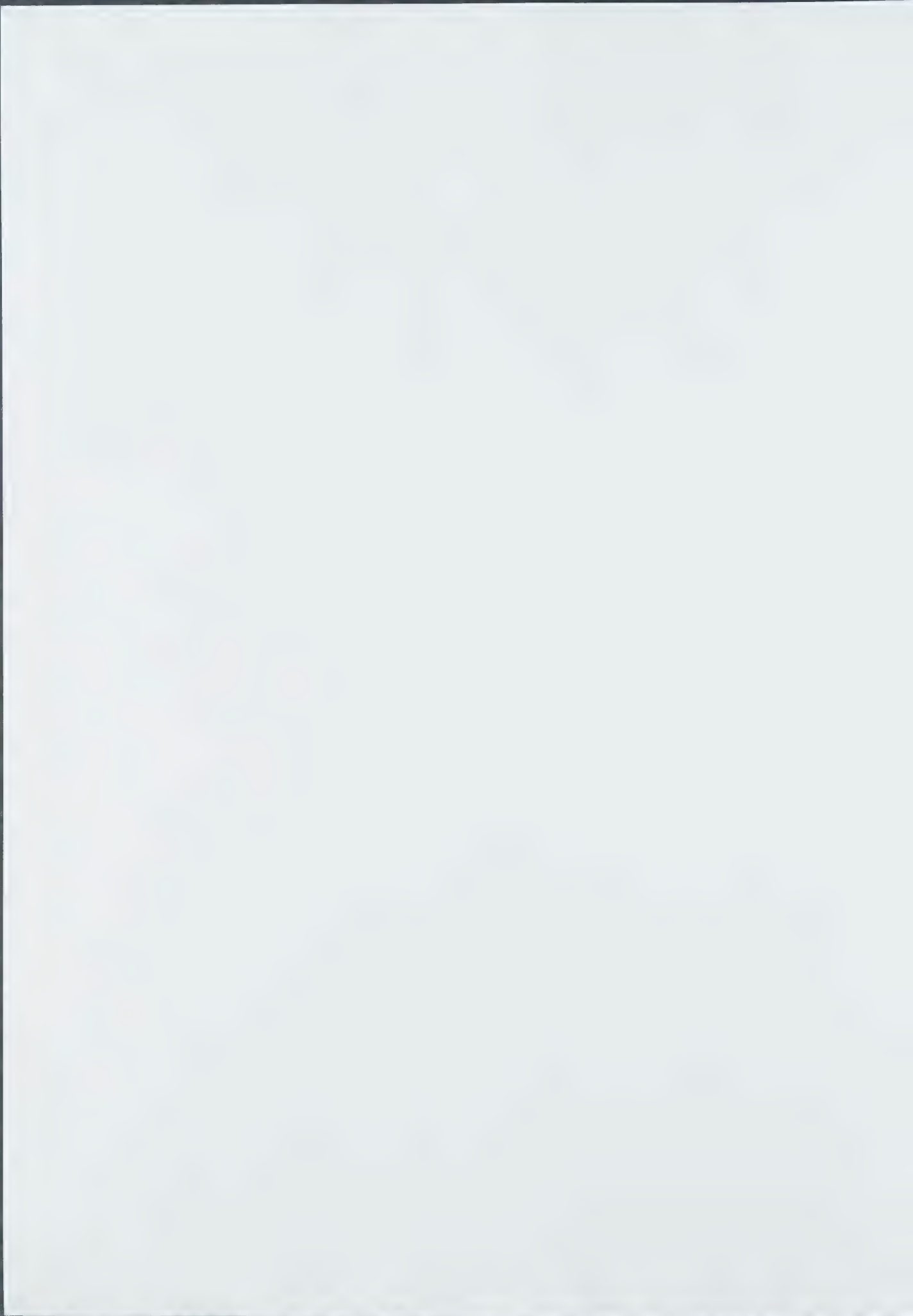
I do hope you have a successful auction session in London, and that you uncover some more treasures.

Wishing you all the best for Christmas and a safe return to Milwaukee.

Yours ever

A handwritten signature in cursive script, appearing to read "David Walton".

D R M WALTON



UNIVERSITY OF



SUSSEX
AT BRIGHTON

School of Cultural and Community Studies

Arts Building
University of Sussex
Falmer, Brighton BN1 9QN

Telephone: (0273) 606755
Fax: (0273) 678466

Dr A R Bader
52 Wickham Avenue
Bexhill on Sea
TN39 3ER

16 December 1993

Dear Dr Bader,

Thank you very much for your talk to Art History students on 6th December. I think we all felt and benefited from your knowledge and enthusiasm of 17th Century Dutch painting. I hope the latter part of last week proved successful for you - indeed we did notice some news of that in the press. It was very kind of you to offer to return to us for another talk and perhaps we could do this at the same time next year when the 17th Century course is again being taught. We will keep in touch.

The Subject Group sends its very best wishes to both you and Mrs Bader for the New Year.

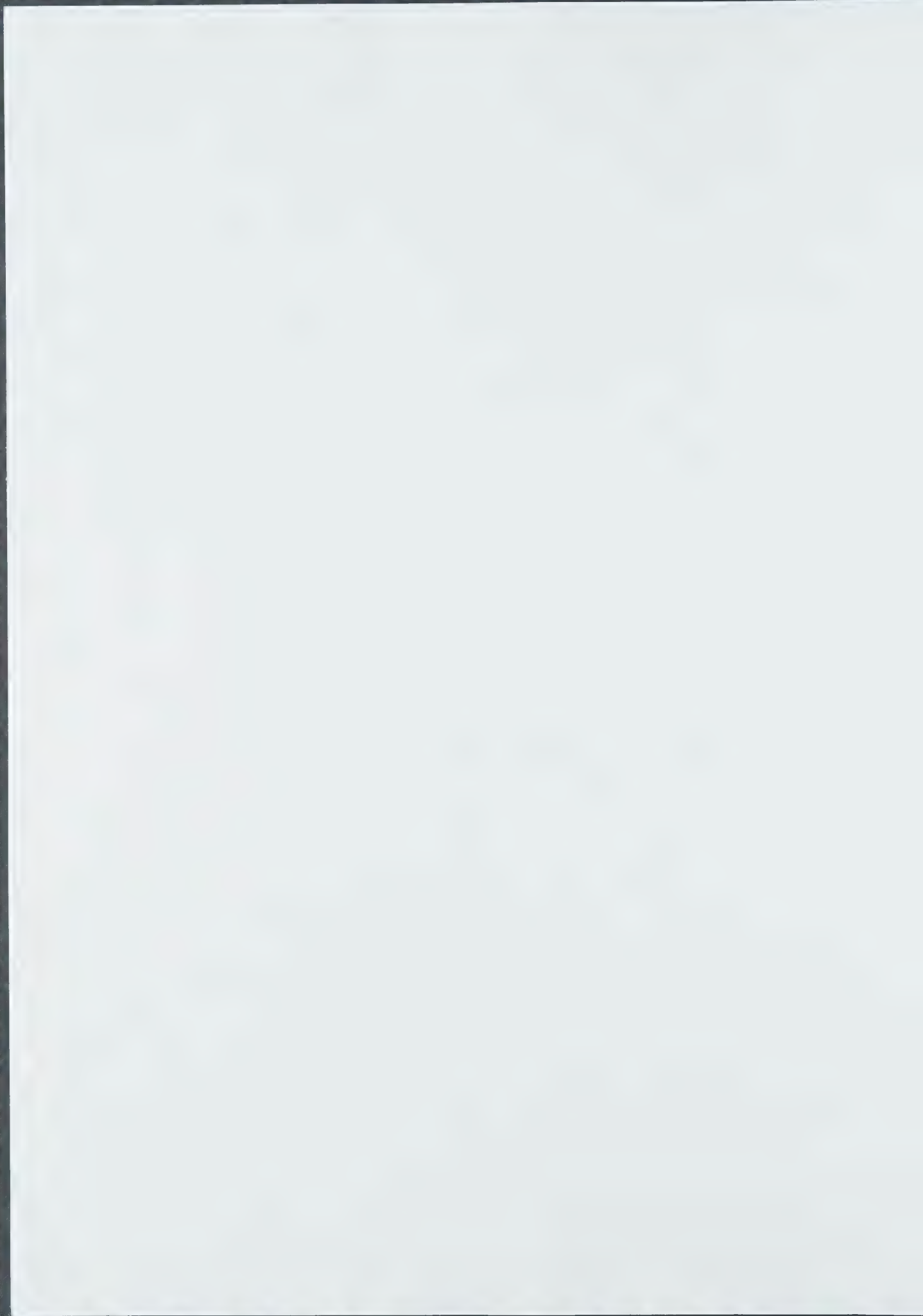
Yours sincerely,

A handwritten signature in cursive script that reads "Maurice Howard".

Dr Maurice Howard
Senior Lecturer in History of Art

Dean: T. J. Diffey, B.A., Ph.D.

Sub-Deans: (Student Affairs) John Jacobs, M.A. (Academic Affairs) Brian M. Short, B.A., Ph.D.



DR ALFRED BADER
52 WICKHAM AVENUE
BEXHILL-ON-SEA
EAST SUSSEX
TN39 3ER

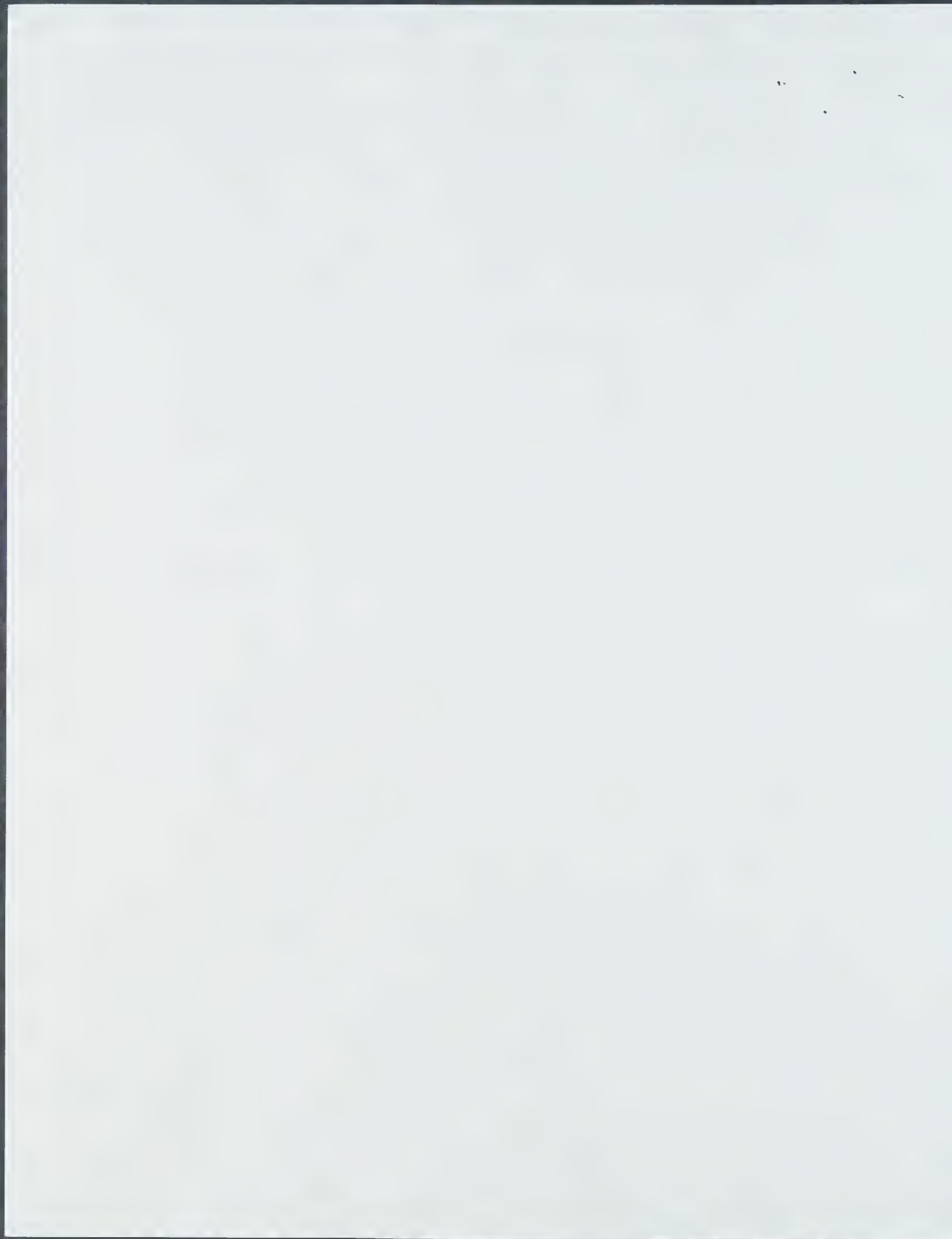
Mr John Cornforth
Department of Chemistry
University of Sussex,
Falmer.

Dear Mr John:

Thank you so much for your kind reception last week, and particularly for giving me a copy of your work on RBW.

Enclosed, as promised is Prof. Reichstein's fascinating article on the meaning of alchemy.

I so enjoyed reading your two articles, 'The Trouble with Synthesis' and 'Scientists as Citizens' which appeared in the Australian J. Chem. I believe that the former would fit so well into the *Alchimica Acta*, and I will suggest to its editor, Dr. Steven Branca that he consider getting the journal's permission. All I can add is your own words: "May you live to see, and better to share ^{than} more of it. ~~It is a~~ ? -



has been achieved so far."

Thank you also for suggesting that
Aldrich offer $\text{CuO} \cdot \text{Bu}^t$ in ampoules, and
for giving me a reprint of your paper
in *J. Chem. Soc. Perkin Trans. 1*, 859 (1987).

With the person's best wishes from
house to house,

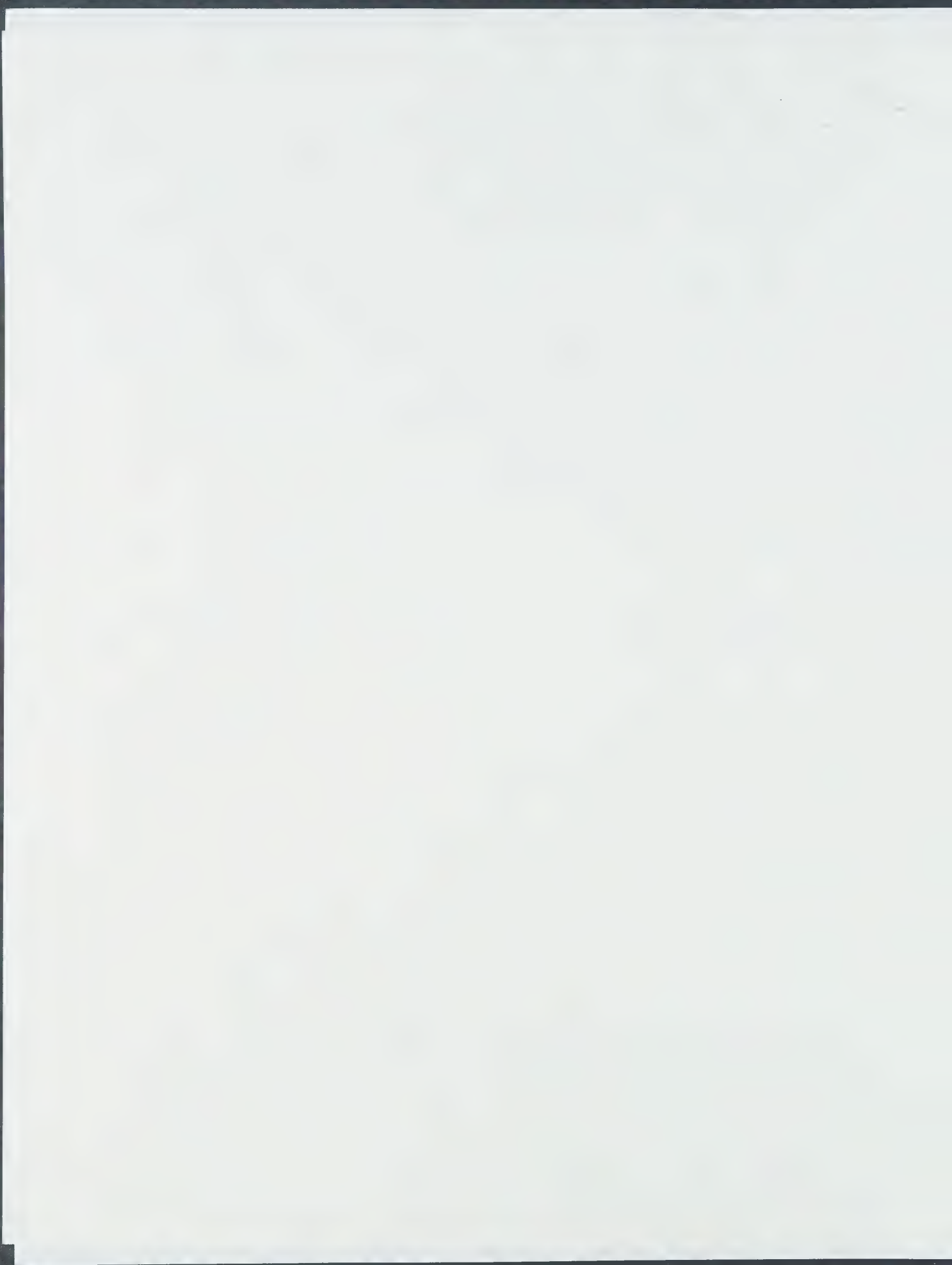
I remain,

Yours Sincerely

Q. D. Baker

20. XII. 93.

cc Dr. Steven Blanca, Aldrich, Milwaukee.



Tedden Reichstein

The Meaning of Abstraction

In ca. 1965 with RB Woodward
making strychnine, I thought
that organic chemistry had
peaked. That was a mistake.

Do you have the booklet
on the RBW symposium
in Philadelphia

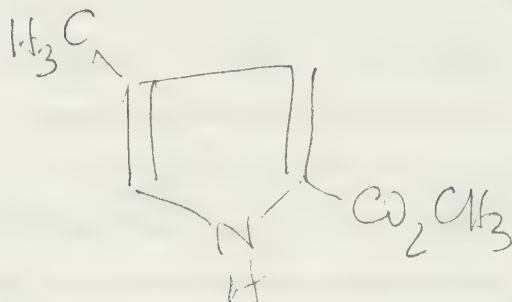
Do you have a report?

I was not a RBW student

but he helped me more than LFF.

Fuser was always travelling

Parisian = W.A. Colin Bloomfield?



Stable

See below

Do you think we could
sell it? In any case

May I look at it?

Have you published
(1) the synthesis
(2) the reactions?

Saegusa

Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

January 18, 1994

Professor Sir John Cornforth
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear Sir John:

Isabel and I still remember with great pleasure our happy day in your department in December.

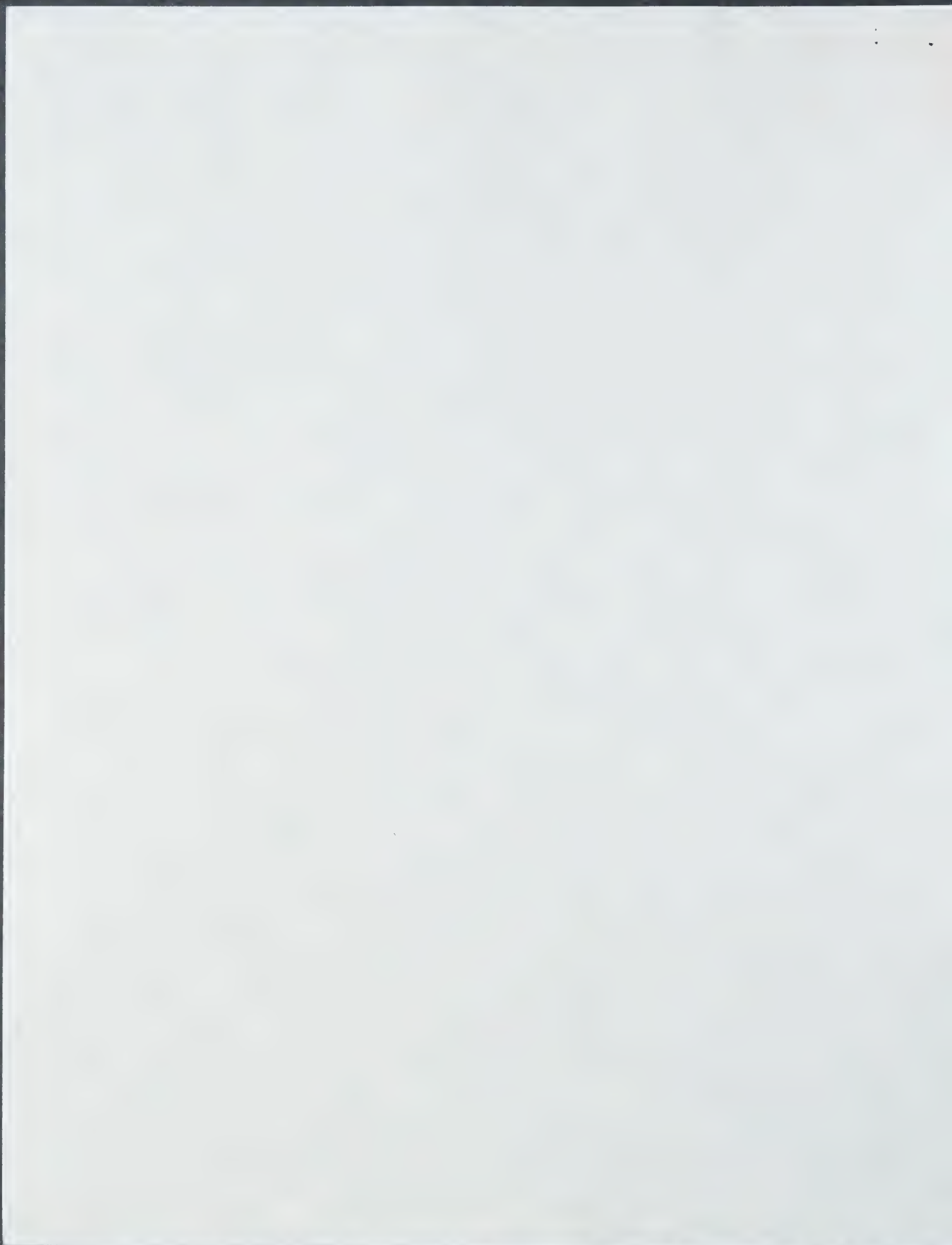
Now I am happy to be able to report that the Australian Journal of Chemistry has approved the re-printing of your article "The Trouble with Synthesis" in the Aldrichimica Acta, and it will appear later this year.

Best personal regards.

Sincerely,

Enclosures

c: Dr. Stephen J. Branca



Notes

Alfred,

1/6

We have received permission to reproduce "The Trouble with Synthesis" in the Acta (attached letter/3axu). Do you wish to inform Professor Cornforth of our plans. I think we will put it into the 3rd issue.

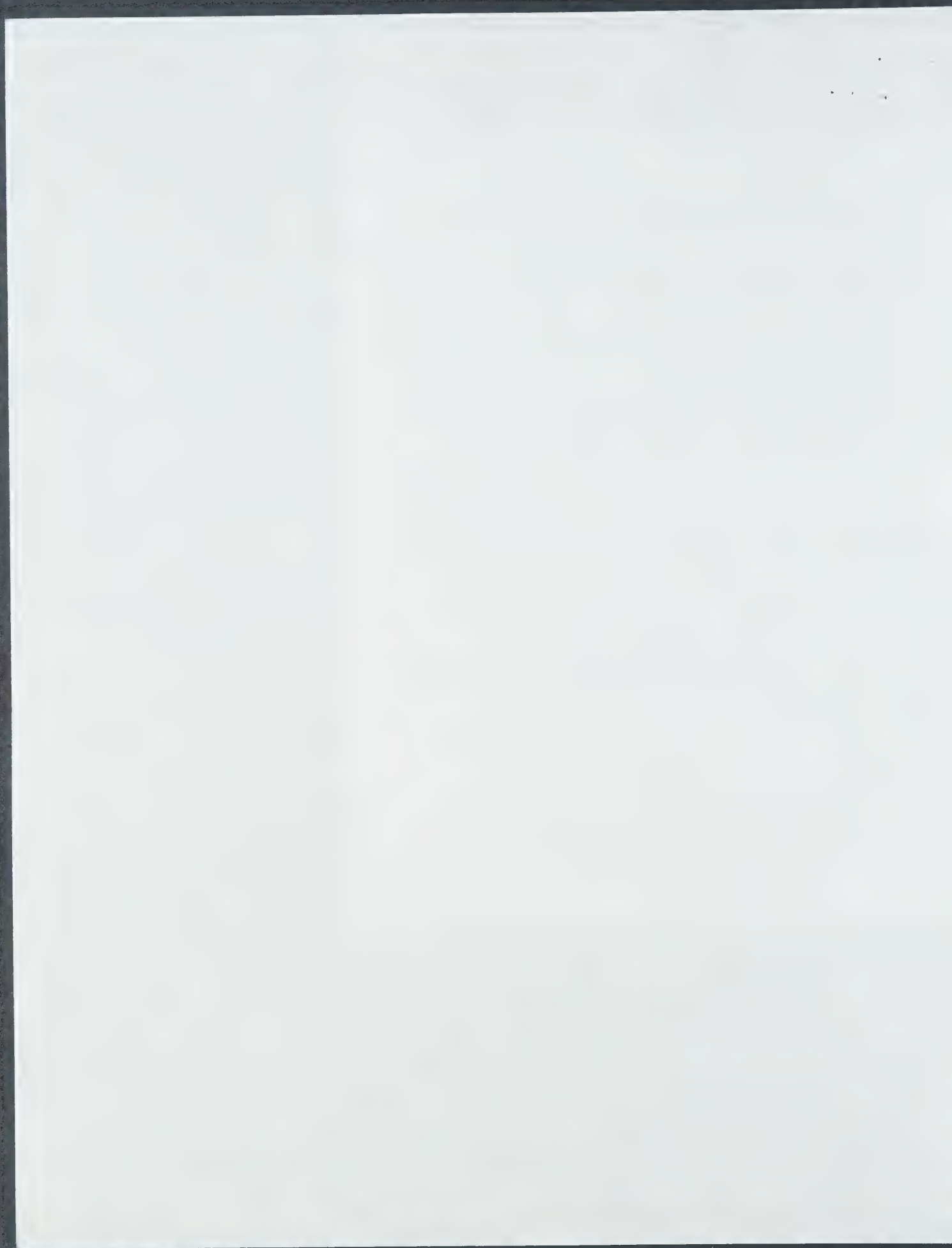
Unfortunately "CuOt" is not stable in the presence of air - need a glove box with less than 5ppm O₂. It is the precursor to [Ph₃PCuH]₆ but is not isolated.
Best regards,

Steve



Aldrich Chemical Company, Inc.

chemists helping chemists in research & industry





Chemists Helping Chemists In Research and Industry

aldrich chemical company, Inc.

January 5, 1994 .

Via Fax: 61 3 419 4096

- 6 JAN 1994

Dr. J. R. Zdysiewicz
Managing Editor
Australian Journal of Chemistry
P.O. Box 89
East Melbourne, Victoria 3002
Australia

Dear Dr. Zdysiewicz:

We would like your permission to reproduce in its entirety Sir John W. Cornforth's article *The Trouble with Synthesis*- which appeared in the *Australian Journal of Chemistry* 1993, 46, 157-170- for publication in a forthcoming issue of the *Aldrichimica Acta*.

We believe Professor Cornforth is aware of our interest (letter from Dr. Alfred Bader, former Chairman, to Professor Cornforth) and will give his permission to reproduce the article. We will, of course, include the appropriate citation to the *Australian Journal of Chemistry* in our reference section.

Thank you for your attention in this matter and I look forward to your response.

Sincerely,

Stephen J. Branca, Ph.D.
Director, Publications & New Products

cc: Dr. Alfred Bader

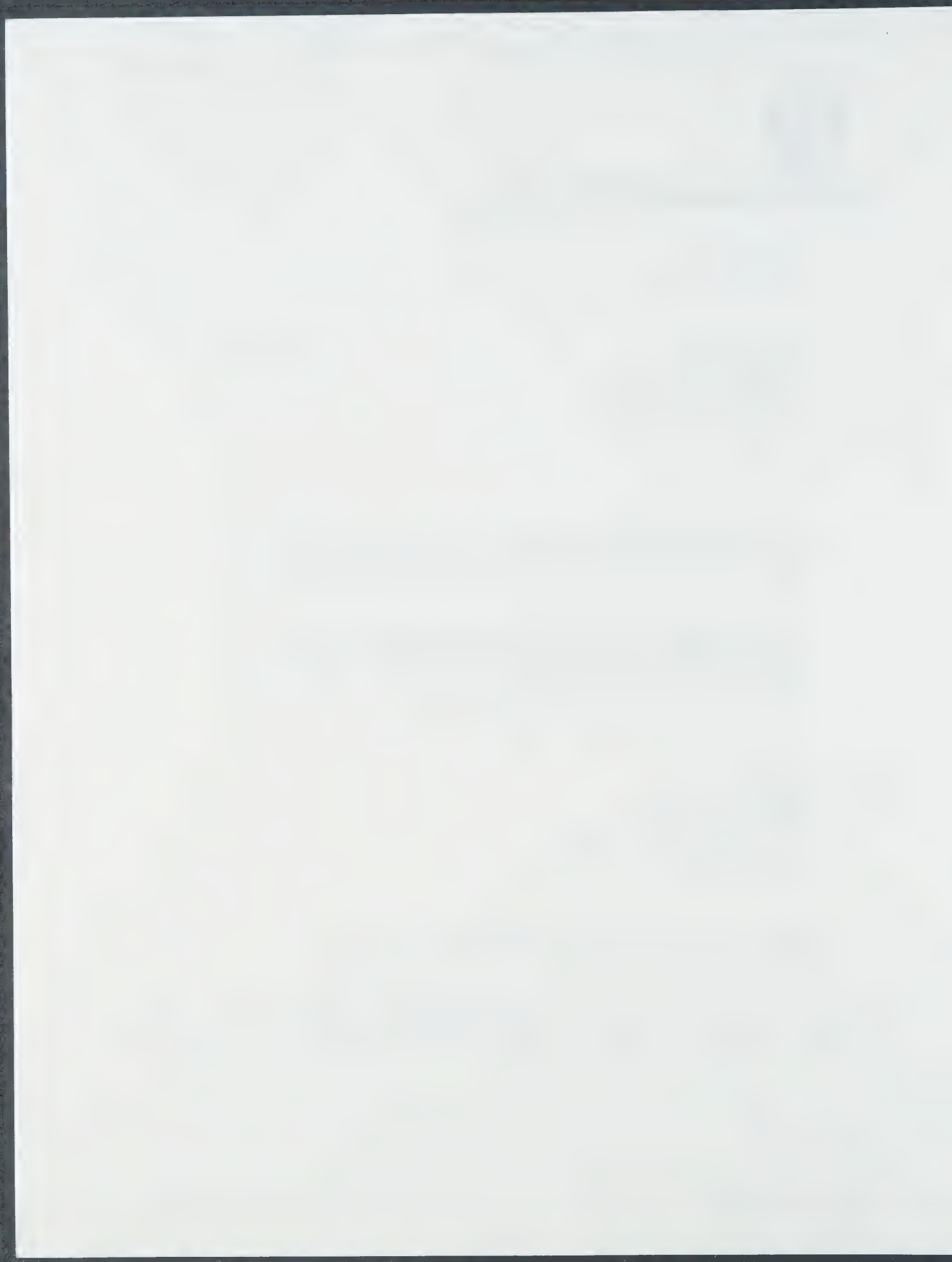
Permission is granted for you to reproduce the above.
Full acknowledgment to the source is required.

Date

Signed 
Dr J R Zdysiewicz, Managing Editor, A J Chemistry

P.O. Box 955, Milwaukee, Wisconsin 53201 USA, Telephone (414) 272-8890, Cable Aldrichem TWX 810-262-3052, Telex 26-843, FAX 414-873-4079

** TOTAL PAGE.001 **





Chemists Helping Chemists in Research and Industry

aldrich chemical company, inc.

January 5, 1994

Via Fax: 61 3 419 4096

Dr. J. R. Zdysiewicz
Managing Editor
Australian Journal of Chemistry
P.O. Box 89
East Melbourne, Victoria 3002
Australia

Dear Dr. Zdysiewicz:

We would like your permission to reproduce in its entirety Sir John W. Cornforth's article **The Trouble with Synthesis**- which appeared in the *Australian Journal of Chemistry* **1993, 46, 157-170**- for publication in a forthcoming issue of the *Aldrichimica Acta*.

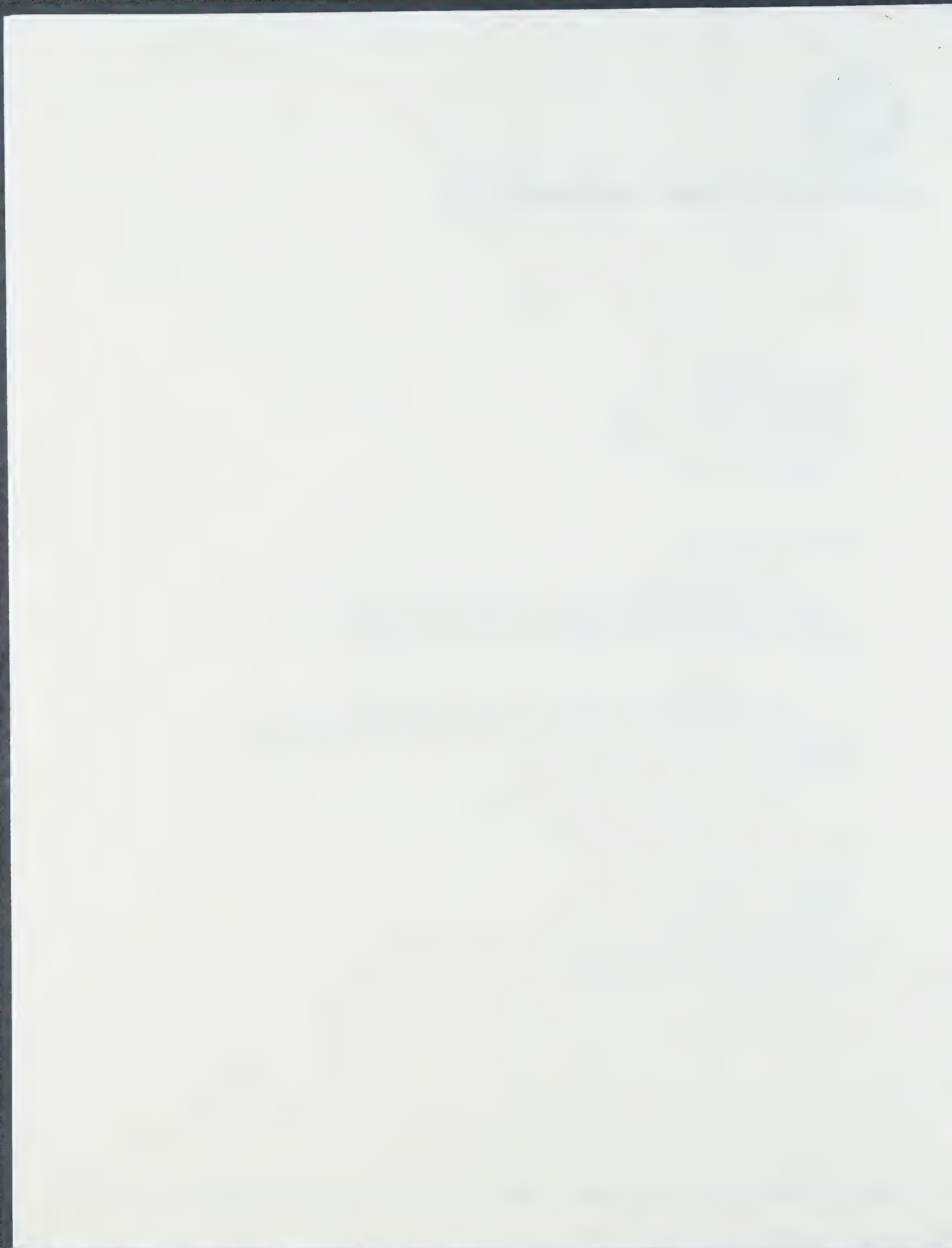
We believe Professor Cornforth is aware of our interest (letter from Dr. Alfred Bader, former Chairman, to Professor Cornforth) and will give his permission to reproduce the article. We will, of course, include the appropriate citation to the *Australian Journal of Chemistry* in our reference section.

Thank you for your attention in this matter and I look forward to your response.

Sincerely,

Stephen J. Branca, Ph.D.
Director, Publications & New Products

cc: Dr. Alfred Bader



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

Sir John Cornforth AC CBE FRS

12 January 1994

Dr. Alfred Bader,
52 Wickham Avenue,
Bexhill-on-Sea,
East Sussex TN39 3ER

Dear Dr. Bader,

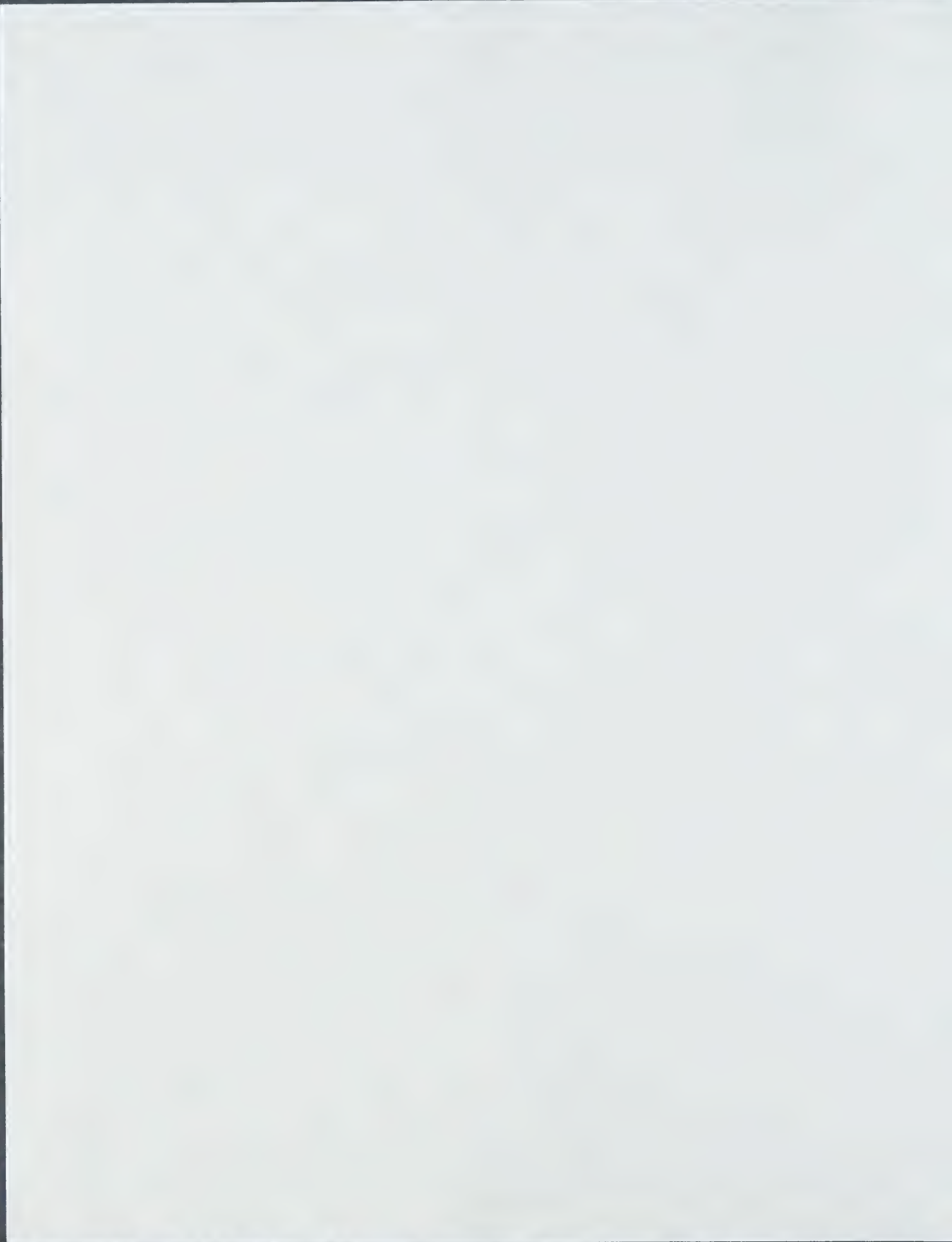
Many thanks for your letter dated 20 December and for copy of Reichstein's inaugural lecture. What he had to say about the old alchemists was similar, if I remember right, to the position of the French writer Figuiet whose book I mentioned. For me, it was reminiscent of the debate between theoretical and experimental scientists - except that the alchemists of all types seemed mainly concerned with creating and preserving mysteries, rather than solving and publishing them. Reichstein seems to be arguing that the true adepts looked inward, not outward; it is fortunate for all of us that he did not do so himself.

I heard from the editor of the Australian Journal of Chemistry that the editor of Aldrichimica Acta had contacted him. I hope that the article will be well received.

With all good wishes,

Yours sincerely,

A handwritten signature in cursive script, appearing to read "John Cornforth".



UNIVERSITY OF



SUSSEX
AT BRIGHTON

The School of Chemistry and
Molecular Sciences

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

Sir John Cornforth AC CBE FRS

12 January 1994

Dr. Alfred Bader,
52 Wickham Avenue,
Bexhill-on-Sea,
East Sussex TN39 3ER

Dear Dr. Bader,

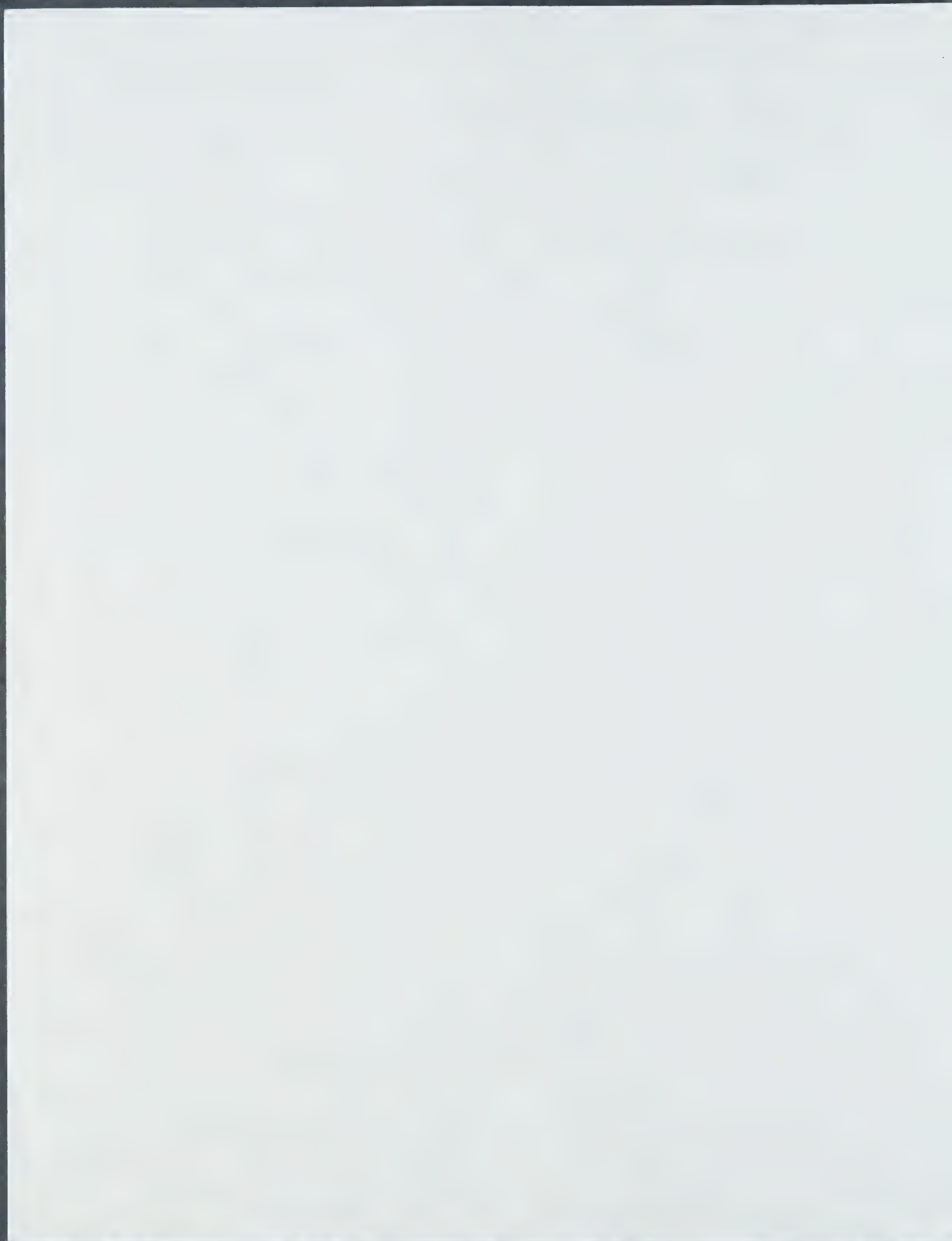
Many thanks for your letter dated 20 December and for copy of Reichstein's inaugural lecture. What he had to say about the old alchemists was similar, if I remember right, to the position of the French writer Figuiet whose book I mentioned. For me, it was reminiscent of the debate between theoretical and experimental scientists - except that the alchemists of all types seemed mainly concerned with creating and preserving mysteries, rather than solving and publishing them. Reichstein seems to be arguing that the true adepts looked inward, not outward; it is fortunate for all of us that he did not do so himself.

I heard from the editor of the Australian Journal of Chemistry that the editor of Aldrichimica Acta had contacted him. I hope that the article will be well received.

With all good wishes,

Yours sincerely,

14. II. 94



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

(☎ direct 0273 678326)
e-mail J.Hudson@susx.ac.uk
1 December, 1994

Dr. A. Bader
52 Wickham Ave.
Bexhill-on-Sea
TN39 3ER

Dear Alfred,

It was good to meet with you again yesterday. Thank you for your advice, encouraging remarks and for the lunch. I do hope your tea engagement with the Vice-Chancellor was satisfactory and that Timms *et al*, if present, took due note of your reservations concerning the content of their booklet.

I have read through the proofs of your three chapters and could detect no additional typos. The Sheffield experience was a real eye-opener and I was astounded to learn of Ciba-Geigy's treatment of Bob Woodward. I have some very minor points. In the Loschmidt chapter you refer to the Avogadro-Loschmidt number at the bottom of p.194 and again on p.198 (line 14). Could I suggest that the definition (number of molecules in the liter of gas) need only be stated once. In the Caveat Donor chapter something is definitely missing at the bottom of p.256 (I see now that you have noted the omission also). I thought Beilstein was an encyclopaedia of organic compounds (p.261). On p.266 (3rd para line 8) I think the tense is wrong and one should write, "...students were still alive". I look forward very much to the eventual appearance of your book.

Finally, may I thank you for the way in which you spoke with the Dean, David Smith, yesterday morning. He took your comments on board and will be writing to Queen's shortly. As I said, we do have long-standing contacts with Prague and I am sure they would be most keen to send young promising scientists to Sussex if funding can be found. David Smith will be making some tentative enquiries and will write to you in due course.

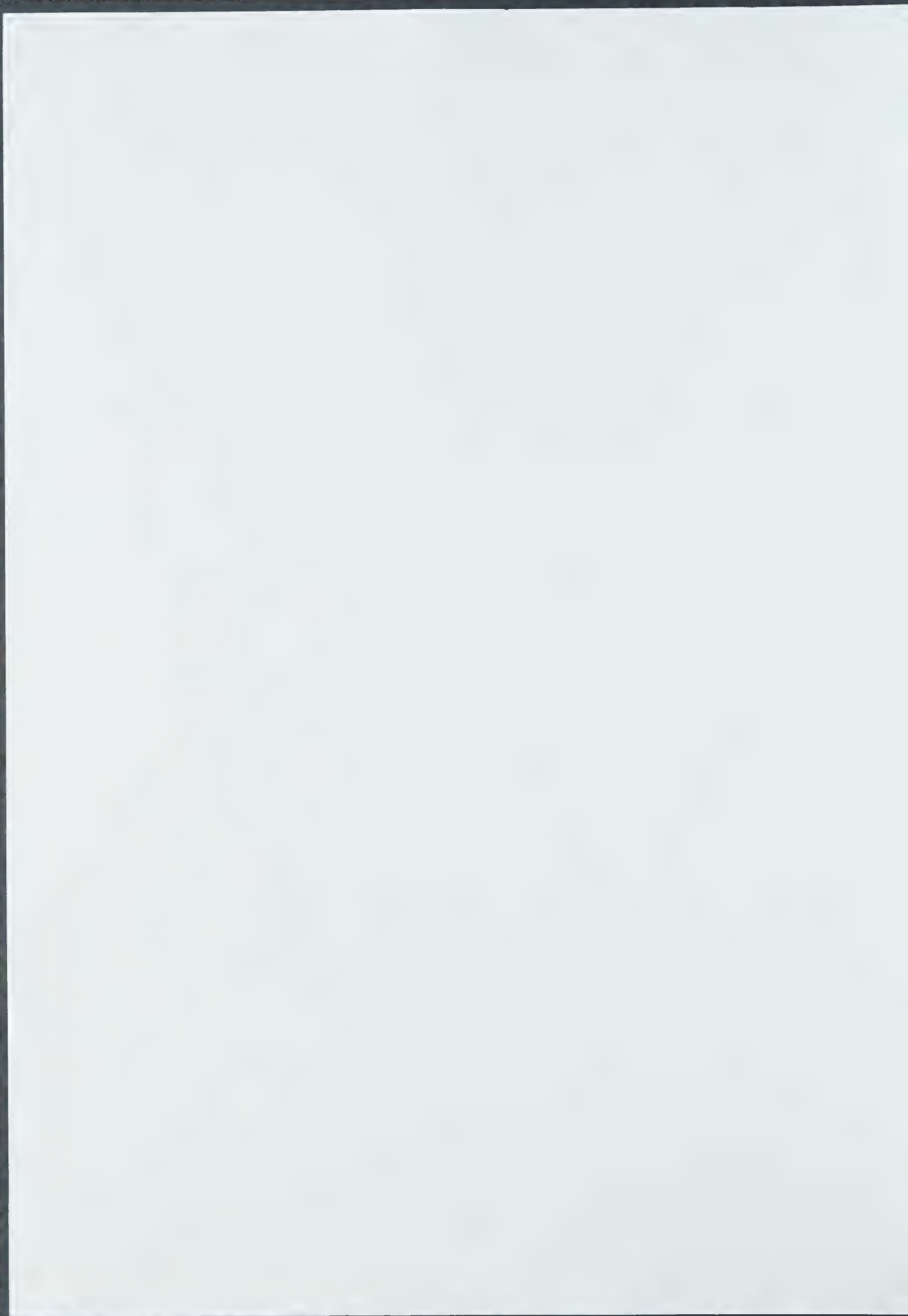
With very best regards, also to your wife.

Yours sincerely,

A handwritten signature in cursive script, appearing to read 'D.R.M. Walton', with a long horizontal line extending to the right.

D.R.M. Walton

Encs.



Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

January 19, 1995

Dr. James Hanson
School of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

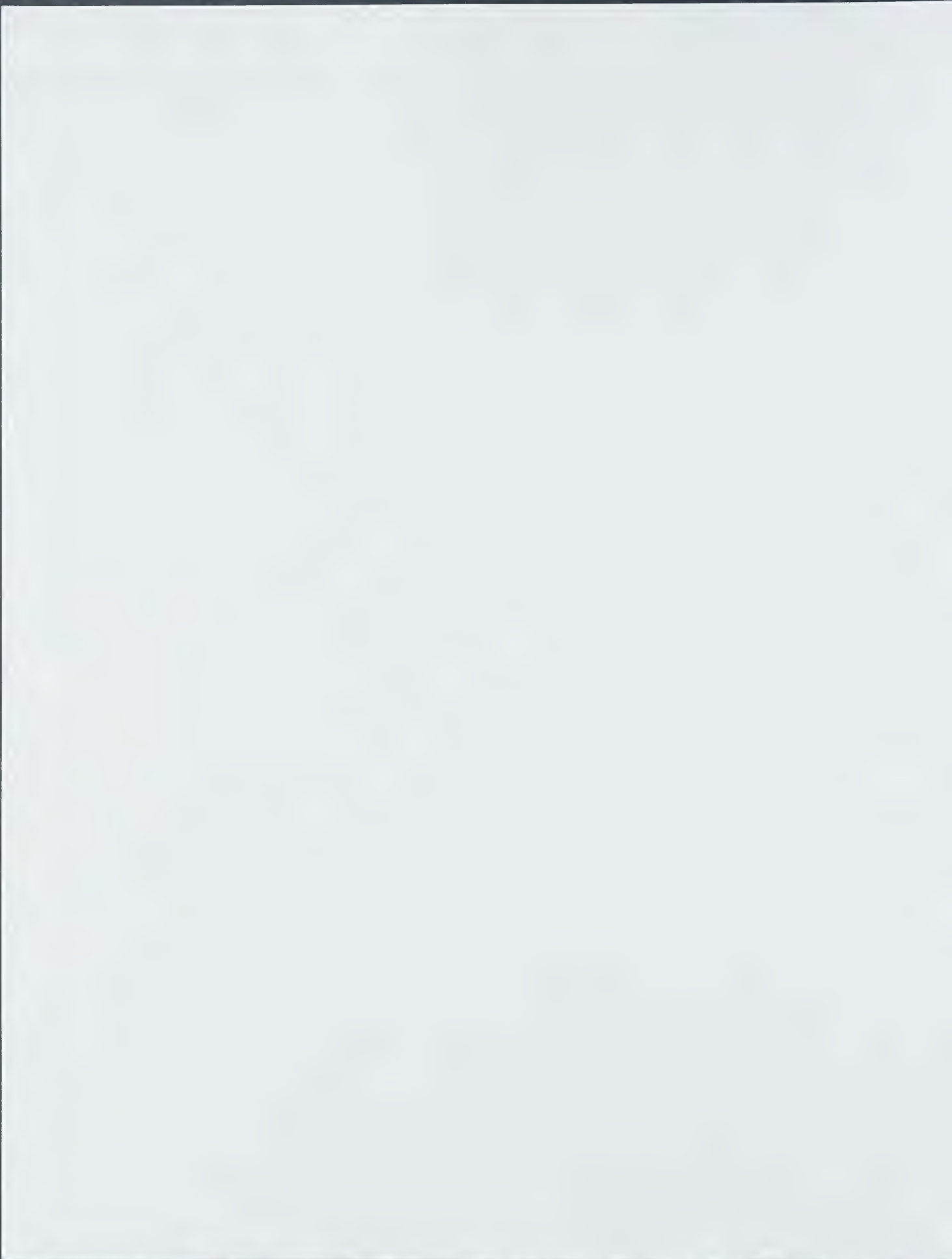
Dear Jim:

I appreciate your long and thoughtful letter of January 9th more than I can tell you in a letter.

Of course, I will mull over your thoughts for my Parsons award address of April 1st.

All good wishes.

Sincerely,



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (01273) 606755
Fax: (01273) 677196

Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211
USA

Our ref:95081801
18 August, 1995

Dear Dr. Bader,

I wish to write personally of my gratitude for the help that you have given to the Sussex Fullerene Group at such a critical time. Your assistance has been crucial in enabling us to continue a programme which has become outstandingly successful. At the present time it seems to me that it is almost impossible for flexible research to be carried out and it is not clear how UK fundamental research will be able to carry on in this climate.

Thank you again for the part you have played in ensuring that at least our small contribution will be able to survive.

With best wishes.

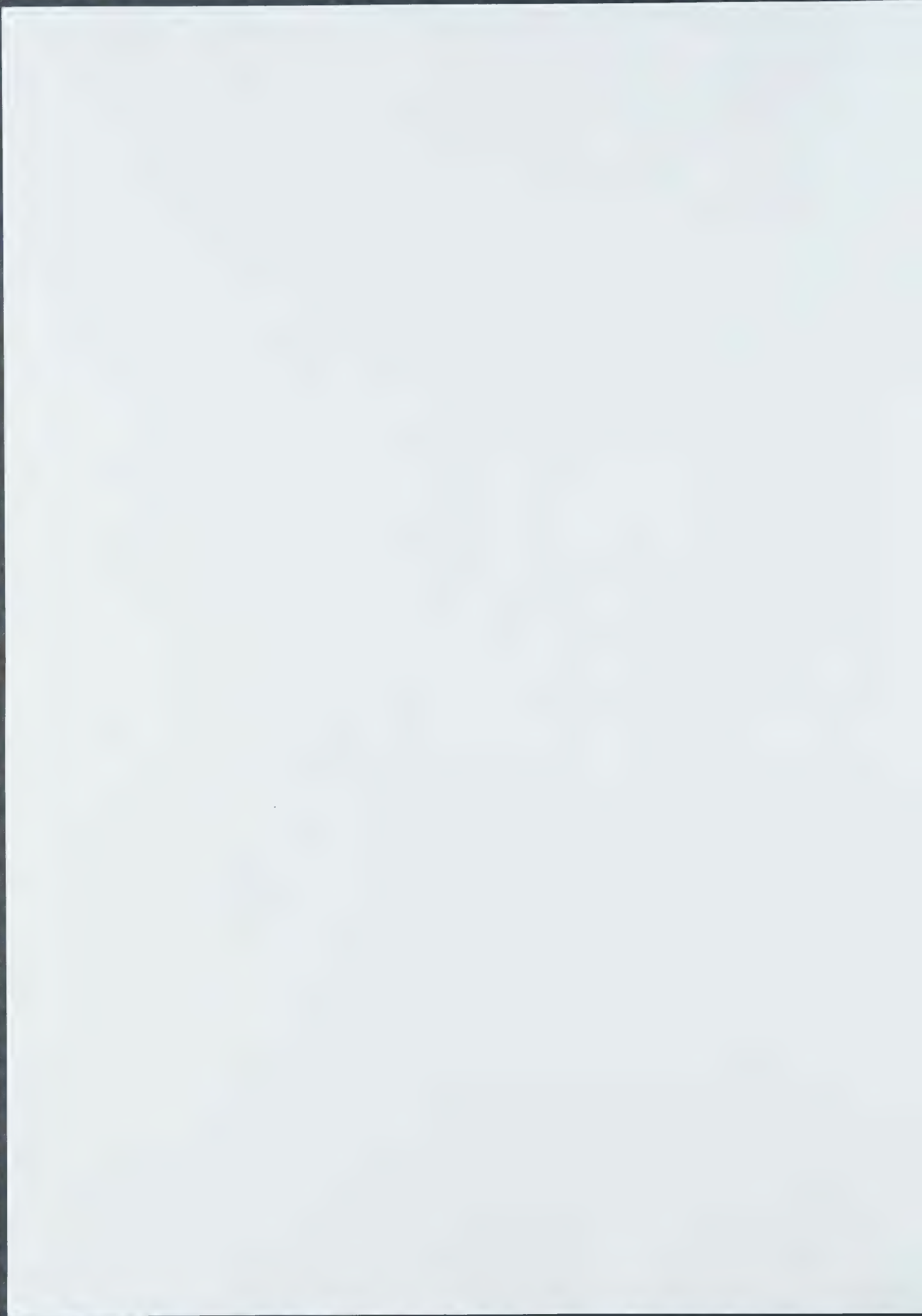
Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Harold Kroto'.

Harold Kroto

Enc.

Professor H.W. Kroto, FRS
(☎ direct 01 273 678329) e-mail kroto@sussex.ac.uk



Dr. Alfred Bader
2961 North Shepard Avenue
Milwaukee, Wisconsin 53211

A Chemist Helping Chemists

August 29, 1995

Dr. David Walton
Department of Chemistry
University of Sussex
Falmer, Brighton BN1 9QJ
England

Dear David:

In response to your letter of August 18th, I would just like to confirm that I will send a gift of \$10,000.00 this year if the Royal Society Chemistry and the Royal Society do not help as I hope they will. The only condition is that the gift be U.S. tax deductible to me.

Please let me know whether the University of Sussex has now set up a U.S. Friends of Sussex University, and if not, whether C.A.F. America is willing to accept my gift and pass it on to the University without substantial deduction.

Clearly, I am still hopeful that Drs. Gregory and Inch will help, and if not, that the University has set up a Friends organization.

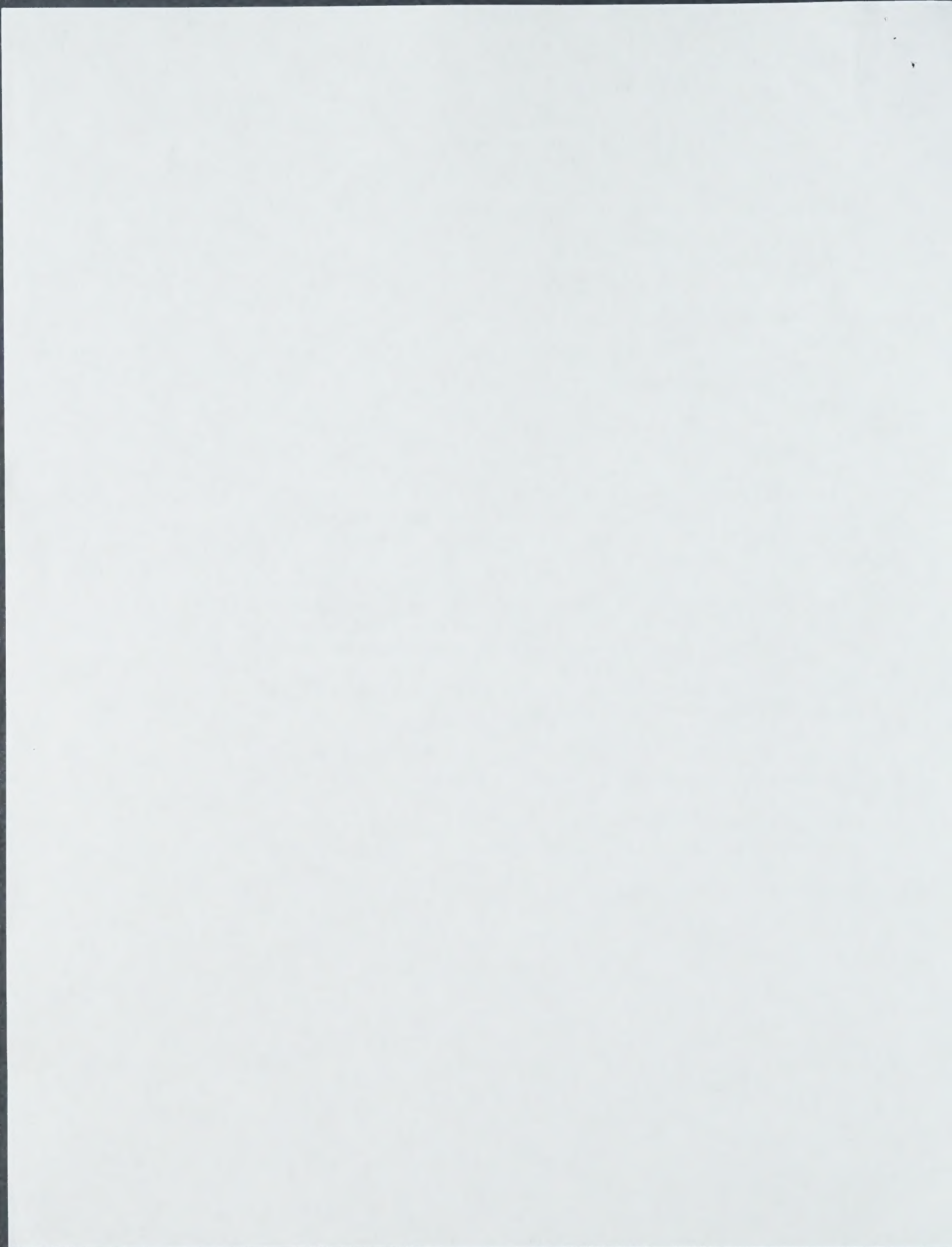
Did you see that fine reference to your work in the latest *Chemical Intelligencer*, copy enclosed?

I just heard from Dr. Roger Taylor, inquiring whether I could speak in your department on October 30th or December 4th, and the latter date is possible.

With all good wishes, I remain,

Yours sincerely,

AB/cw



UNIVERSITY OF



SUSSEX
AT BRIGHTON

**The School of Chemistry and
Molecular Sciences**

University of Sussex
Falmer, Brighton BN1 9QJ

Telephone: (0273) 606755
Fax: (0273) 677196

18 August 1995

Dr Alfred Bader
2961 North Shepard Avenue
Milwaukee
Wisconsin 53211
U.S.A.

A handwritten signature in cursive script that reads "David Walton".

POSTDOCTORAL SUPPORT

The time is approaching when a one-year contract, starting at the beginning of October, has to be prepared. The University of Sussex Administration (who issue the letter) will only make a move if they have documentary evidence that the funds are available, or will be forthcoming. As you know, ICI have provided £8,000 (cheque already received), and the Dean of MOLS, Dr J D Smith, has agreed to contribute £7,500 from School funds. It would therefore be very helpful if you could write to me regarding your offered contribution of \$10,000. I am advised that the letter need only be a statement of intent at this stage.

Thank you very much for your most generous support of our fullerene program, and for your kind efforts on our behalf. So far we have received no further information from either the Royal Society or the Royal Society of Chemistry.

With my very best wishes to your and Isabel.

Yours sincerely

A handwritten signature in cursive script that reads "David Walton".

D R M Walton

cc: H W Kroto

The Board of Directors
of the Corporation
has this day adopted the following
resolution:

RESOLVED

That the Board of Directors
do hereby authorize the
President of the Corporation
to execute and deliver
such instruments as may be
required to carry out the
intent of this resolution.

[Signature]

Secretary of the Corporation

It is the policy of the Corporation to support and encourage the development of the community in which it operates. The Corporation has established a program to provide financial assistance to qualified individuals who are seeking to improve their educational background. The Corporation will provide such assistance in the form of a loan to the individual, provided that the individual is a resident of the community in which the Corporation operates and is a member of the Corporation's community development fund.

The Corporation's community development fund is a fund established for the purpose of providing financial assistance to qualified individuals who are seeking to improve their educational background. The Corporation will provide such assistance in the form of a loan to the individual, provided that the individual is a resident of the community in which the Corporation operates and is a member of the Corporation's community development fund.

[Signature]

President of the Corporation

1978