

Comments Received from Named Scientists

Jacob Bigeleisen
Joseph Bunnett
Greg Choppin
Wallace Cleland
Jack Dunitz
Ernest Grunwald
Edward Kosower
Barry Lever
Elmer C. Lupton, Jr.
Alfred Redfield
Christian Reichardt
Jeff Schwartz
Robert Shapiro
Akira Suzuki
Jiro Tsuji
Edwin Vedejs
Robert M. Williams

Jacob Bigeleisen

Date: Wed, 27 Sep 2000 21:22:32 -0400
From: jbigeleisen@notes.cc.sunysb.edu
To: John Andraos <jandraos@yorku.ca>
Subject: Re: scientific genealogy project

I am responding to your request about my scientific genealogy. I received my Ph.D. at the University of California, Berkeley in 1943. My thesis advisor was Gilbert N. Lewis, who received his Ph.D. at Harvard in 1899. His thesis advisor was Theodore William Richards.

I have looked at your genealogy page with the description of Lewis' researches. Lewis was not the first to measure a thermodynamic isotope effect. In the 1920s Keesom and Haantjes measured the difference in vapor pressures of the neon isotopes. In the work that led to the discovery of deuterium in 1931, Urey, Brickwedde and Murphy achieved a partial separation of HD from H₂ by fractional distillation. Lewis' first works appeared in 1933 in a long series of papers with Ronald T. MacDonald. I have documented this in a paper published in J. Chem. Ed. in the 1980s.

The research I did for my thesis was concerned with the photoproduction of semiquinones and free radicals and the measurement of their absorption and fluorescence spectra. Some of the work involved the use of polarized light.

My research since I received my doctorate has been the chemistry of isotopes - experimental and theoretical in both equilibrium and kinetic systems.

Jacob Bigeleisen

Joseph Bunnett

Date: Wed, 23 Aug 2000 14:31:23 -0700 (PDT)
From: Joe Bunnett <bunnett@chemistry.ucsc.edu>
To: jandraos@yorku.ca
Subject: genealogy

Dr. John Andraos
Dear Dr. Andraos:

I started this letter and inadvertently hit the [Send] box before I was really finished, and before your e-address was properly in place. And so I'm sending it again, more complete.

For your scientific genealogy trees project, I contribute the following information:

- (1) I did graduate work to the Ph.D. at the University of Rochester, and my Ph.D. research advisor was Prof. Dean Stanley Tarbell.
- (2) Tarbell did his graduate work at Harvard University and his Ph.D. research advisor was Paul D. Bartlett.
- (3) Richard A. Bartsch, now Professor and Chemistry Dept. Chairman at Texas Tech University was my Ph.D. student at Brown University.

To complicate your project, I suggest that you should also heed the professors with whom chemists did postdoctoral work. In many cases the postdoctoral research experience has had more impact on the career of a chemists than has experience as a graduate student.

I faintly recall that in earlier years genealogy trees of the sort you are constructing were assembled. Maybe the Chemical Heritage Foundation in Philadelphia has copies of them.

Good luck with the project.

Yours, J. F. Bunnett

Greg Choppin

Date: Thu, 31 Aug 2000 13:05:48 -0400
From: Greg Choppin <gchoppin@chemmail.chem.fsu.edu>
To: John Andraos <jandraos@yorku.ca>
Subject: Re: scientific genealogy project

Dear Dr. Andraos

My PhD professor was George W. Watt who received his PhD from W. C. Fernelius. Watt's PhD was from Ohio State U. but I don't know where Fernelius' did his PhD work. Hope this helps as this is an interesting project and I enjoyed your web page.
Greg Choppin

Wallace Cleland

Date: Wed, 23 Aug 2000 13:10:28 -0600
From: Wallace Cleland <cleland@enzyme.wisc.edu>
To: John Andraos <jandraos@yorku.ca>

Subject: Re: scientific genealogy project

My doctoral advisor was Marvin J. Johnson of the Biochemistry Dept. at the University of Wisconsin.

His major professor was W. H. Peterson, also of the Biochemistry Dept. at U. Wisconsin.

Sincerely, W. W. Cleland

W. Wallace Cleland
1710 University Ave
Madison, WI 53705

[Cleland@enzyme.wisc.edu](mailto:W.W.Cleland@enzyme.wisc.edu)
phone 608-262-1373
FAX 608-265-2904

Jack Dunitz

Date: Mon, 28 Aug 2000 17:40:12 +0200

From: J.D.Dunitz <dunitz@org.chem.ethz.ch>

To: John Andraos <jandraos@yorku.ca>

Subject: Re: scientific genealogy project

Dear Dr. Andraos,

In reply to your questions: my doctoral advisor was Professor John Monteath Robertson (1900-1989), and his doctoral advisor was G. G. Henderson (1862-1942), both Glasgow University. After obtaining his Ph.D. at Glasgow, Robertson went to the Davy-Faraday Laboratory of the Royal Institution in London, where he worked for several years with Sir William Henry Bragg in X-ray crystallography. He then held posts at Sheffield before returning to Glasgow as Gardiner Professor of Chemistry in 1942, a post that he held until his retirement in 1970.

After my Ph.D. work with Robertson, I held post-doc positions at Oxford University (Dorothy Crowfoot Hodgkin), Caltech (Linus Pauling and Verner Schomaker) and the Royal Institution (Sir William Laurence Bragg) before coming to the ETH in Zurich as Professor in 1957.

I wish you every success in your endeavour!

Jack Dunitz

Prof. Jack D. Dunitz
dunitz@org.chem.ethz.ch

Organic Chemistry Laboratory
Swiss Federal Institute of Technology
ETH-Zentrum
CH-8092 Zurich
Switzerland
<http://www.chem.ethz.ch/D-CHEM-Prof/dunitz/dunitz.html>

Date: Wed, 30 Aug 2000 17:26:33 +0200

From: J.D.Dunitz <dunitz@org.chem.ethz.ch>
To: John Andraos <jandraos@yorku.ca>
Subject: Re: scientific genealogy project

Dear Dr. Andraos,

I got my Ph.D. in early 1947 and had already left Glasgow to join Dorothy Hodgkin's group in Oxford (Oct 1946-July 48, Sept 51-August 53). I was at Caltech from Sept 48-Aug 51 and from Sept 53-Aug 54. There was then a period as Visiting Scientist at NIH with Alex Rich (Sept 54-December 55) before joining Bragg at the Royal Institution (Jan 56-Aug 57). I was then Professor of Chemical Crystallography at the ETH from Oct 57 until my official retirement in April 90. I still have an office here and try to keep busy.

Best regards,

Jack Dunitz

Prof. Jack D. Dunitz
dunitz@org.chem.ethz.ch

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Swiss Federal Institute of Technology
ETH-Zentrum
CH-8092 Zurich
Switzerland
phone: +411 632 2892
FAX: +411 632 1109
<http://www.chem.ethz.ch/D-CHEM-Prof/dunitz/dunitz.html>

Ernest Grunwald

Date: Sat, 26 Aug 2000 14:11:55 EDT
From: EEGrun@aol.com
To: jandraos@yorku.ca
Subject: Scientific Genealogy Project

Dear Dr. Andraos:

Here's the info I believe you want:

Ernest Grunwald
PhD, 1947, University of California at Los Angeles
Advisor: Saul Winstein

Saul Winstein
PhD., 1938, Cal. Tech.
Advisor: Howard J. Lucas

Good luck with your project.

Sincerely,
Ernest Grunwald

Date: Thu, 31 Aug 2000 13:52:06 EDT
 From: EEGrun@aol.com
 To: jandraos@yorku.ca
 Subject: Re: Scientific Genealogy Project

Dear Dr; Andraos:

N.J. Holness was a student of Saul Winstein's whose thesis was published in JACS in 1954. I would infer that he got his Ph.D. in 1953. We did not overlap at UCLA, but I knew him. His PhD thesis was a groundbreaking study of the reactivity of conformational isomers. Good luck.

Ernest Grunwald

Edward Kosower

Date: Sun, 3 Sep 2000 20:31:18 +0300
 From: ed kosower <kosower@post.tau.ac.il>
 To: John Andraos <jandraos@yorku.ca>
 Cc: ed kosower <kosower@post.tau.ac.il>
 Subject: Scientific genealogy project

Dear John, In response to your request, I send the following information. The dates may be off by a year, and I am not absolutely sure that Frank Westheimer worked with Conant. I hope this is sufficient for your purposes. I found your lists fascinating, although I have not yet had the time to look at all. Also, I did not choose to look for a solvent parameter because of my training with Winstein, but came across the phenomenon underlying the parameter in the course of completely unrelated work. With best wishes, Ed Kosower

Chemical genealogy

Edward M. Kosower

Date & Place of Birth: Brooklyn, New York (USA), February 2, 1929

Academic Training:

Mass. Inst. Technology (MIT), 1945-48; B.Sc.

B.Sc. Thesis: Reacns. Li Diethylamide w. Chlorotoluenes (Prof. J.D. Roberts)

University of California at Los Angeles, 1948-52; Ph.D.

Ph.D. Thesis: Homoallylic (i-sterol) Rearrangement (Prof. S. Winstein)

National Institutes of Health Postdoctoral Fellow, 1952-54

Org. Chem. Inst., Univ. of Basel, Switzerland, 1952-53 (Prof. C.A.

Grob) Dept. Chem. Harvard Univ., Cambridge, Mass. 1953-54

(Prof. F.H. Westheimer)

John D. Roberts, Ph.D. at UCLA [University of California at Los Angeles] in 1944 under the direction of William G. Young on Allylic Grignard Reagents.

NRC Fellow at Harvard (with P.D.Bartlett) 1945-6

Saul Winstein, Ph.D. at California Institute of Technology (Caltech)
1938/9 under the direction of Howard J. Lucas
NRC Fellow at Harvard (with P.D.Bartlett) 1939-40

William G. Young, Ph.D. at California Institute of Technology
(Caltech) 1932? under the direction of Howard J. Lucas

The bulk of the information comes from J.D.Roberts, "The right place
at the right time", series on Profiles, Pathways, and Dreams, 1990.

Cyril A. Grob, Ph.D. under the direction of Prof. T. Reichstein,
Organic Chemistry Institute, University of Basel,
Switzerland. Postdoctoral fellow with Saul Winstein, UCLA. Now
emeritus professor at University of Basel.

Frank H. Westheimer, Ph.D. at Harvard under the direction of James
A. Conant?, 1935
NRC Fellow at Columbia Univ. (L.P. Hammett?) 1935-6 Now emeritus
professor at Harvard University

Edward M. Kosower
Emeritus Professor of Chemistry tel 972-3-6408556
School of Chemistry fax 972-3-6409293
Tel-Aviv University kosower@post.tau.ac.il
Tel-Aviv 69978 ISRAEL

Barry Lever

Date: Sun, 12 Nov 2000 10:49:08 -0500
From: Barry Lever <blever@yorku.ca>
To: jandraos@yorku.ca
Cc: Serge Gorelsky <serge@yorku.ca>
Subject: Genealogy

John: I visited your genealogy site- very nice indeed. I might quibble
that I am on a direct line in Hoffman tree #1 and I am not noted so
!!!!

Linstead ---> Elvidge (Ph.D. stud Linstead, then Reader Imp. Sci) -->
ABPL

Was it your intention to show how Chem Dept York people link to these
lines ?? Obviously that would be very nice to do.

Barry

Elmer C. Lupton, Jr.

Date: Thu, 8 Feb 2001 16:58:44 EST
From: TalkingLights@aol.com
To: jandraos@yorku.ca

Subject: Your Chemical Genealogy Pages

Hello,

I was suitably amazed and pleased to learn that my work with Gardner Swain was considered significant enough to put my name on your pages.

At any rate, let me give some additional information for you. I was born in Baltimore Maryland. You probably didn't find a graduation date for me from MIT because the work with Swain was done as a Bachelor's thesis. My graduation date from MIT with an S.B. was 1965. I then received a Ph.D. degree from Yale (with Ken Wiberg) in 1969.

Thank you so much for remembering me and for remembering Gardner whom I do miss. I do appreciate it.

My very best wishes,

Elmer C. Lupton Jr.
Talking Lights LLC
28 Constitution Road
Boston, MA 02129
617-242-0050
FAX 617-242-0046
e-mail: TalkingLights@aol.com

Alfred Redfield

Date: Mon, 11 Dec 2000 12:10:26 -0500
From: Alfred Redfield <redfield@brandeis.edu>
To: jandraos@yorku.ca
Subject: Geneology

My advisor was Robert J. Maurer, Univ. of Illinois Physics Department in the 50's to 80's. He called himself a solid state chemist but I don't know who his advisor was; he worked on color centers in ionic solids, a field developed by the Germans, esp. R. W. Pohl.

However, like many people, my career was more influenced by my postdoc advisor Nicolaas Bloembergen whose advisors were C. J. Gorter in Holland (formally) and E. M. Pucell at Harvard (in fact).

I never took a course in chemistry in my life. You probably missed my uncle Howard Redfield who published an article combining group theory with graph theory, and probably founded the application of this to enumerating organic compounds. His second paper was rejected and his first 1929 paper anticipated work by the famous mathematician Polya in the 30s. His second paper was posthumously published around 1980. He was a linguist and did not get tenure at Princeton, then worked for the Philadelphia dept of public works, then for reasons too complicated to tell you he became unemployed and died during WW2. He didn't have an advisor, or student, and is as close as one comes to being a "genius".

Some of my real ancestors were scientists and include Wm. C. Redfield, amateur generalist, discoverer of cyclonic mustion of storms, first president of AAAS; his son John Howard Redfield, botanist, discoverer

of the Redfieldiform fish fossils, his son Robert S. Redfield, an early artistic photographer, his son and my father Alfred C. Redfield, an ecologist specialist who pioneered oceanic chemistry, and my first cousin Donald Redfield Griffin, discoverer of bat sonar. In case you were wondering. I am a friend of GKC Roberts of your Univ.

Alfred Redfield

Christian Reichardt

On Thu, 12 Oct 2000, Reichardt wrote:

> Dear Dr. Andraos,
 >
 > Thank you for your E-Mail of October 9, asking me for the name of my
 > doctoral advisor. I did my Ph. D. in 1962 under the tutelage of Prof. Dr.
 > Karl Dimroth at the Philipps-University in Marburg/Germany. A complete
 > biography of Karl Dimroth (1910-1995) can be found in Liebigs
 > Annalen/Recueil 1997, XXIII-XL. I send you a copy of this biography, which I
 > wrote (in German) by airmail. Karl Dimroth itself did his Ph. D. under the
 > tutelage of Prof. Dr. Adolf Windaus in 1936 at the University of
 > Göttingen/Germany (title "Über das Lumisterin"). Windaus has got the
 > Nobelprize for Chemistry in 1928 for his work on steroids and their
 > relation to Vitamin D (e.g. Cholesterol).
 > Windaus (1876-1959) itself did his Ph. D. under the tutelage of Heinrich
 > Kiliani (1855-1945) at the University of Freiburg im Breisgau/Germany
 > (title "Neue Beiträge zur Kenntnis der Digitalisstoffe"). Dimroth wrote two
 > biographies of his "Doktorvater", one in Chemie in unserer Zeit 1976, 10,
 > 175-179, and the other in Chemische Berichte 1986, 119, XXXI-LVIII.
 > I hope, these informations are sufficient for your interesting work; if
 > not, let me know.
 >
 > With best wishes,
 >
 > Yours sincerely
 >
 > Christian Reichardt

Jeff Schwartz

Date: Tue, 31 Oct 2000 10:40:53 -0500
 From: jschwartz@chemvax.princeton.edu
 To: jandraos@yorku.ca
 Subject: scientific genealogy

Dear Dr. Andraos:

Sorry to take so long to reply. My doctoral advisors were Eugene E. Van Tamelen and John I. Brauman, both at Stanford (I worked for both on a joint project). I don't know van Tamelen's or Brauman's advisors. Brauman got his PhD at Berkeley in 1963. Sorry I can't be of more help.
 Jeff Schwartz

Robert Shapiro

Date: Wed, 23 Aug 2000 16:19:22 -0400 (EDT)
From: Robert Shapiro <rs2@is2.nyu.edu>
To: jandraos@yorku.ca
Subject: Ph.D. Advisor

Dear Dr. Andraos,

I received my Ph.D. degree from Robert Burns Woodward at Harvard. I do not have the material concerning his Ph. D. advisor, though I know he obtained it at MIT. I suggest that you consult The Beckman Center for the History of Chemistry, 3401 walnut St., Phila, PA, 19104-6228, as they have compiled considerable biographical material on Prof. Woodward.

sincerely,
Robert Shapiro
professor of chemistry

Akira Suzuki

Date: Fri, 29 Sep 2000 14:25:20 +0900
From: Akira SUZUKI <suzuki@chem.kusa.ac.jp>
To: John Andraos <jandraos@yorku.ca>
Subject: Re: scientific genealogy project

Dear Dr. John Andraos.

I have seen your e-mail message of 23 Aug 2000, 13:46:19 -0400 (EDT) this morning, because I was out of town during summer vacation and came back yesterday. Would you please forgive me this late reply. I like to answer you for your query.

Akira Suzuki, received Ph.D. from Hokkaido Univ., Japan, 1959 (doc. advisor, T. Matsumoto)

Takeshi Matsumoto, received Doc. Sci. from Hokkaido Univ., Japan, 1956 (doc. advisor, H. Suginome)

Harusada Suginome, received Doc. Sci. from Manchester Univ., UK, 1927 (doc. advisor, R. Robinson)

Additionally, I would like to let you know about my information.

Bath place: Hokkaido, Japan

Important recent publications: Miyaura, N.; Suzuki, A., Chem. Rev., 1995, 95, 2457-2483.
Suzuki, A., J. Organomet. Chem., 1999, 576, 147-168.

Sincerely,

Akira Suzuki

Jiro Tsuji

Date: Thu, 23 Nov 2000 10:17:15 +0900
From: Jiro Tsuji <jtsuji@zd5.so-net.ne.jp>
To: Andraos <jandraos@yorku.ca>
Subject: Scientific genealogy prject

Dear Dr. Andraos;

I am sending you my personal data by the request of Professor A. Suzuki.

Jiro Tsuji, received Ph.D. from Columbia University in New York in 1960
(adviser, Gilbert Stork)

Books published recently, Jiro Tsuji, "Palladium reagents and catalysts" in
1995, and "Transition metal reagents and catalysts" in 2000 both from John
Wiley.

Sincerely

Jiro Tsuji

Edwin Vedejs

Date: Thu, 5 Oct 2000 17:07:13 -0400 (EDT)
From: Edwin Vedejs <edved@umich.edu>
To: John Andraos <jandraos@yorku.ca>
Subject: Re: scientific genealogy project

Mr. Andraos:

My Ph.D. advisor was H. Muxfeldt. I am unsure of his advisor, but my
recollection is that he received his degree with Inhoffen, perhaps at
Gottingen. Another name in my memory is Brockmann, Braunschweig, so if
Inhoffen is not correct, then the other might be. One was the advisor,
the other was involved in some other way, perhaps for the Habilitation
that was required in Germany. Muxfeldt died many years ago, so I'm afraid
that's all I can tell you.
Good luck with your project.

E. Vedejs

Robert M. Williams

Date: Tue, 10 Oct 2000 10:26:28 -0600
From: Robert M. Williams <rmw@mail.chm.ColoState.EDU>
To: John Andraos <jandraos@yorku.ca>
Subject: Re: scientific genealogy project

Dear John,

I got my PhD from MIT under Dr. William H. Rastetter in 1979. He got his PhD from Robert Burns Burns Woodward of Harvard University. I am sure you will have no trouble tracking Woodward back. I was also a post-doc with Woodward from 1979-1980 (the year of his death).

Sincerely,

Robert M. Williams

Professor

--

Robert M. Williams

Professor of Chemistry

Colorado State University

Department of Chemistry

Fort Collins, CO 80523

(970)-491-6747 phone

(970)-491-5610 FAX

Comments Received from Students and Professors

Dr. Gerald Wayne Craig, Syngenta, Switzerland

Prof. Carmen Giunta, Le Moyne College, USA

Dr. David R. Kelly, Cardiff University, UK

Dr. Robert J. Lancashire, University of the West Indies, Jamaica

Prof. Edward Lee-Ruff, York University, Canada

Date: Tue, 21 Nov 2000 18:57:31 +0100
 From: gerald_wayne.craig@syngenta.com
 To: jandraos@yorku.ca
 Subject: Lord A.R. Todd Connection

Just a quick note, concerning your genealogy tree showing the British and German connection. It does not yet show Lord A.R. Todd who took two Ph.D.s in chemistry, one with W. Borsche, Frankfurt and Sir R. Robinson, Oxford.

Otherwise, your Webpage is absolutely superb!!!

Regards,

Dr. G. Wayne Craig
 Syngenta
 Basel, Switzerland

Date: Tue, 24 Oct 2000 19:41:43 -0400
 From: Carmen Giunta <giunta@mail.lemoyne.edu>
 To: jandraos@yorku.ca

Subject: Anecdotes of Named Chemists

Hello Prof. Andraos,

I just came across your site last week, and I find it most interesting. If you don't mind, I will place a link to it on my "Classic Chemistry" site, in the internet resources section.

I also wanted to point out to you that none of the section headings in your site works. (E.g., clicking on "women in chemistry" near the top of the page does not bring the browser to that section in the body of the page.)

--

Carmen Giunta giunta@mail.lemoyne.edu
Associate Professor of Chemistry
Le Moyne College <http://web.lemoyne.edu/~giunta>
1419 Salt Springs Rd. (315) 445-4128
Syracuse, NY 13214-1399 fax 445-4540

Date: Thu, 7 Jun 2001 04:02:41 +0100
From: David Kelly <davidrkelly@ntlworld.com>
To: jandraos@yorku.ca
Subject: Anecdotes of Named Chemists

Dear John,

Great page! I never knew Jack Baldwin was an East Londoner and I worked for him!

Archer and Martin may have done some work on paper chromatography, but their pre-eminent work was on GLC, which at the time revolutionised the analysis of petroleum products. Some gas-solid partitions (using charcoal and similar materials) were attempted prior to their work, but they showed that a gas liquid partition was hugely more efficient.

You might like to add a section in the tidbits on Christopher Ingold. Systematised all the major reaction types in Organic Chemistry (SN1, SN2, E1, E2 etc) and invented the system for the assignment of absolute configuration, yet never got a Nobel prize. As a fascinating trivial happenstance, the postal code for the national research councils main office in Swindon England, commences SN2.

Best Regards

Dave

Dr. David R. Kelly
Department of Chemistry, Cardiff University,
P. O. Box 912, Cardiff, CF1 3TB, Wales, UK
Tel. 029-20874063 Home 029-20610891
Mobile 07971-240448 FAX 029-20874030
email KellyDR@Cardiff.ac.uk or (slowe replies) davidrkelly@ntlworld.com

Date: Tue, 12 Dec 2000 12:30:35 -0500

From: Dr Robert John Lancashire <rjlanc@uwimona.edu.jm>

To: jandraos@yorku.ca

Subject: Contributors to Chemistry

Parts/Attachments:

1 Shown 21 lines Text

2 OK ~423 lines Text (charset: ISO-8859-1)

3 Shown 4 lines Text

Dear Dr Andraos,

I am enclosing a list of contributors to chemistry that I have been compiling from

information found largely on the Internet.

I discovered that Microsoft Excel and other spreadsheets were unable to sort on dates before 1900 so have split the dates into 3 fields

day, month and year for both Birth and Death.

The file is ASCII comma separated which will import readily back into Excel etc and as straight text is virus free!

A number of names in the list I think do not appear in your lists and hopefully this may be useful to you.

Thanks for your efforts,
best regards

Robert

ps

by the way any ideas about the Hirsch funnel?

Presumably named after a Hirsch, but who and when?

Dr. Robert J. Lancashire E-mail <mailto:rjlanc@uwimona.edu.jm>

Sub-Dean, Technology Management and Development

Department of Chemistry Tel (876) 9271910

University of the West Indies, Kingston 7 Fax (876) 9771835

Mona Campus, JAMAICA. <http://wwwchem.uwimona.edu.jm:1104/chrl.html>

Date: Wed, 25 Oct 2000 18:23:29 -0400 (EDT)

From: Edward Lee-Ruff <leeruff@yorku.ca>

To: John Andraos <jandraos@yorku.ca>

Subject: Re: Edward?

Hi John,

I got the following info for Jack Edward. Note that he got his Ph.D. at McGill in organic chemistry but no mention of his supervisor.

Regards,

Ed

Biographical Sketch of John T. (Jack) Edward

John T. Edward graduated from the Town of Mount Royal High School, Quebec, in 1935 and from McGill University, Honours Chemistry in 1939. He obtained a Ph.D. in Organic Chemistry from McGill in 1942 for research on the high explosive, RDX. After ten months of postdoctoral work at Iowa State on the synthesis of antimalarial drugs, he joined the Experimental Explosives Division of the National Research Council in Ottawa in 1943. In 1945 he was transferred to CARDE, Valcartier, Quebec, and at the end of the war joined the Department of Chemistry of the University of Manitoba. In 1946 he became a Science Scholar of the Royal Commission for the Exhibition of 1851, and entered the laboratory of Sir Robert Robinson in Oxford, England, where he worked on the constitution of the alkaloid strychnine (D. Phil. 1949). In 1949 he was appointed Imperial Chemical Industries Research Fellow of the Department of Chemistry of the University of Birmingham, England, and in 1952 Lecturer in Organic Chemistry at Trinity College, Dublin. He returned to the Department of Chemistry of McGill University in 1956, and was promoted through the ranks becoming Macdonald Professor of Chemistry in 1973. He has been a visiting research worker or sessional lecturer at the Carlsberg Laboratory, Copenhagen (1953), Universit Pierre-et-Marie Curie, Paris (1972-1973 and 1979-1980), the Czechoslovak Academy of Science, Prague (1977), the University of So Paulo (1978) and Ume University, Sweden (1980, 1982). He was a Fellow of the Royal Society of Canada, Fellow of the Chemical Institute of Canada, a member of the Order of Chemists of Quebec (Vice-President 1971-1972), of the American Chemical Society, and of various other scientific societies. He retired in 1986 and became Emeritus Professor the same year. His publications dealt with topics in the fields of alkaloids, terpenes, steroids, amino-acids and peptides, carbohydrates, heterocyclic compounds, stereochemistry, conformational analysis, molecular volumes, ion mobilities, paper electrophoresis, dipole moments, electrostatic effects, acidity functions, acid-catalyzed reactions, solvent effects, and graph theory. His "invention" of what is widely known as the anomeric effect or the Edward-Lemieux effect is one of his most important scientific legacies. He was active throughout his long career publishing over 200 peer-reviewed articles including one in the Canadian Journal of Chemistry which came out about a month after his passing. In addition he graduated over two dozen Ph.D. and M.Sc. students.

Professor Edward is survived by his wife, Dierdre and their three sons, Valentine, Jeremy and Julian. On behalf of the Department of Chemistry and the Faculty of Science of McGill University we extend our sincere condolences to the family. His wit and insights will be missed.

Comments Received from Relatives of Scientists

Bill Langmuir, great grandson of Matthew Langmuir (uncle of **Irving Langmuir**)

Linda Erdmann Brown, great granddaughter of Adolph Erdmann (brother of **Hugo Erdmann**)

Bill Langmuir

Date: Tue, 12 Sep 2000 21:01:35 -0400
From: langmuir@bconnex.net
To: jandraos@yorku.ca
Subject: Named Scientists - Irving Langmuir (Chemistry Nobel 1932) -
Canadian Connection

Irving Langmuir's father, Charles, grew up in Toronto where his father was pressman at the Globe from about 1848 until 1878. Charles worked for railroad attorney Aemilious Irving in Hamilton and it is believed this is where Irving's name came from. Irving's uncle Matthew Langmuir (my great grandfather) through the M Langmuir Manufacturing Co of Toronto was the largest luggage and trunk maker in the country opertaing a large plant on King Street from 1890 until 1960. Irvings father immigrated to the US in his early 20's and spent his career with New York Life Insurance.

Just thought you might be interested.

Irving used to visit my family in Toronto regularly in the 20's and 30's, my father recalled him taking home movies of them in the 20's when no one took home movies (they still exist with Irvings grandson, Roger Summerhayes, who has just completed a video biography of him.

Sincerely
Bill Langmuir
langmuir@bconnex.net

Linda Erdmann Brown

Date: Thu, 4 Oct 2001 02:20:31 EDT
From: LindaBch@aol.com
To: jandraos@yorku.ca
Subject: this is my great grandfathers brother hugo.

[The following text is in the "ISO-8859-1" character set.]
[Your display is set for the "US-ASCII" character set.]
[Some characters may be displayed incorrectly.]

any additional leads or personal information would be greatly appreciated. my cousin has the book that my dad had by hugo done at leipzig. thank you-linda erdmann brown, great granddaughter of adolph erdmann,b. 1853 circa and i have no other info on my family!