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**James E. Guillet fonds**

B2005-0015

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Harold Averill, Jan 2006  
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## Biographical note

James Edwin Guillet was born in Toronto on 14 January 1927, the son of Edwin Clarence Guillet, a prominent historian. He attended Huron Street School, the University of Toronto Schools, and then entered Victoria College at the University of Toronto in 1944 in the honours program in mathematics and physics. In second year he switched to chemistry and physics, where he excelled, but also found time for many extra-curricular activities. His passion for photography drew him to the Camera Club where he won a competition judged by Yousuf Karsh; it also helped him find summer jobs with Eastman Kodak. While a student he was a member of the Canadian Officers Training Corps and the Royal Canadian Air Force and later, while at Cambridge, served with the Royal Air Force Volunteer Reserve as a pilot.

Following graduation with honours in 1948, Guillet moved to Rochester, New York and later Kingsport, Tennessee, as a research chemist for Eastman Kodak where he worked on new types of graft and block polymers which led to the commercial development of new acrylic fibres. In 1952 he married Helen Bircher and the following year they left for St. John's College, Cambridge, where he studied under R. G. W. Norrish, a future Nobel laureate. He obtained his doctorate in photochemistry in 1955, after which he returned to Kingsport where he worked first as a senior research chemist in the Eastman Laboratories. In 1963 he became research associate in charge of polyolefin research for Tennessee Eastman. Later that year he joined the Department of Chemistry at the University of Toronto with the status of associate professor. In 1969 he was appointed full professor and in 1991 professor emeritus. By the time of his death he had authored or co-authored over 300 papers, had registered more than 100 patents, and had written two books on polymers.

John Polanyi, a member of Guillet's hiring committee, noted that, although he had a string of patents to his name (30 American ones in 1963), "his bent was to do academic science and to figure out why things happened rather than how useful they were. He warned all the time against letting the application of science dominate the university agenda."<sup>1</sup> His main areas of research involved studying the ways polymers react to light. His specialty was polymer science, particularly as it relates to synthetic fibres, coatings, and plastics. At the University of Toronto he began work on the photochemistry of polymeric materials (plastics) and held basic patents on the processes for the synthesis of photo- and biodegradable plastics (which he assigned to the U of T), high density polyethylene, polyolefin waxes and coatings resins, and peroxides and other catalysts for olefin polymerization. In the 1970s and the 1980s his

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<sup>1</sup> *Globe and Mail*, 1 October 2005

lab was regarded as the "best in the world in photophysics and photochemistry and 'supervisors were fighting' to find places for their students 'to work with Jim Guillet'."<sup>2</sup>

While he and the University could not interest any Canadian companies in his inventions in biodegradable plastics, there was a great deal of interest from other countries so Professor Guillet set up three high-technology companies that were based on inventions and technology originating at the University of Toronto. EcoPlastics Limited manufactured degradable plastics and polymer flocculants and also carried out contract research on tar sands recovery, light sensitive plastics, greenhouse films and related products. Medipro Sciences Limited was founded in 1976 to research medical applications of plastics materials and is noted for its development of 'artificial skin' for burn victims. Solarchem Corporation developed proprietary methods for making pharmaceuticals and specialty chemicals using sunlight as the primary energy source. Guillet served as president of each company at various times (EcoPlastics, 1976-1985; Solarchem, 1984-1985, and Medipro, 1985-1993). EcoPlastics and Medipro achieved modest commercial success (Medipro was purchased by Pharma Patch PLC in 1993) and Solarchem became a major manufacturer of equipment for the decontamination of water and air using high-intensity UV lamps.

Throughout his years at the University of Toronto, Professor Guillet was very active in administrative work. From 1969 to 1976 he sat on the University of Toronto Patents Committee and in 1977 was appointed chair of the University's Task Force on Patent Policy. From 1983 to 1984 Professor Guillet was Associate Dean for Research and Planning at Scarborough College and served on numerous committees relating to policies for invention and other intellectual property. Other University bodies he served on included the Innis College Council (1969-1970), the Faculty of Arts and Science Council (1971-1973), the Department of Chemistry's undergraduate curriculum committee (1971-1975), as a fellow of New College (1975-1979), on the Faculty Club's board of directors, on the review panel for physical sciences for the Connaught Committee (1977), as chair of the Wiegand Committee (1982-1983), and on the Decanal Promotion Committee (1983). In 1986 he chaired the Research Board's Computer Software Taskforce and in 1987 the Ad Hoc Committee on the PhD/MBA Program.

Professor Guillet was renowned for his ability to attract students and researchers to his laboratory and for forging links with chemists in other countries, more than 30 in all. He "immersed himself in the lives and problems of his students and the scientists who came from around the world to work with him... '[he] would spend hours and hours tutoring them [his students] if they were having a problem'." "He was just incredible...He knew

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<sup>2</sup> Maria Nowakowska, a former student, interviewed for Guillet's obituary in *Globe and Mail*, 1 October 2005.

what their log jam was and who they should speak to."<sup>3</sup> During his career he supervised 28 Ph.D. theses, 26 masters degrees and 50 post-doctoral fellows and research associates. He was also active in giving lectures about science to primary and secondary students in Ontario schools.

Professor Guillet had numerous visiting academic appointments. The principal institutions he was invited to were Vanderbilt University in Tennessee (twice), the CNRS Macromolecular Institute (Strasbourg, France), Acadia University, Kyoto University; the University of California at San Diego, IBM Research Laboratories (San Jose, California), the University of Mainz, St. Andrew's University, St. John's College, Cambridge, and the International School of Advanced Studies in Polymer Science (Ferrara, Italy).

Professor Guillet held numerous offices in scientific societies and attended many conferences where he often delivered plenary lectures. He organized seven international meetings in chemistry, including the International Union of Pure and Applied Chemistry (IUPAC). At the Chemical Institute of Canada he chaired several committees. He served on the editorial advisory boards of five important international scientific journals and was an active reviewer of publications and research proposals in Canada and the United States. In 1987 he co-founded the Polymers and Composites Program of the Ontario Centre for Materials Research, a consortium of five university research groups. In 1988 he acted as an adviser to the Foundation for Research and Development in South Africa.

Professor Guillet received numerous honours for his work, beginning in 1967 with a fellowship in the Chemical Institute of Canada. In 1977 he was awarded the Gold Medal and Canada's patent number 1,000,000 for the invention of degradable plastic. In 1981 he was elected a fellow of the Royal Society of Canada and received a Guggenheim Fellowship, which was followed by a Killam Fellowship in 1987. He received an honorary doctorate from Cambridge University in 1974 and the Chemical Institute of Canada awarded him its Montreal Medal in 1998. In 1999 the Society of Polymer Science of Japan presented him with its International Award.

Professor Guillet died in Toronto on 23 September 2005, from complications following successful bypass surgery.

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<sup>3</sup> Statements by Susan Arbuckle, Guillet's secretary from 1971, and John Fraser, Master of Massey College, recorded in Guillet's obituary in the *Globe and Mail*, 1 October 2005, S7.

## Scope and content

**Date range:** 1944-2005

**Extent:** 9.39 m (74 of boxes) of textual, graphic and sound recordings

Personal records of Professor James E. Guillet, documenting his academic and professional career as chemist with Eastman Kodak Company, as a professor of chemistry at the University of Toronto, and as an inventor and promoter of basic research and industrial application in the use and disposal of plastics and synthetic fibres. Includes correspondence, education, administrative and teaching activities; manuscripts of published and unpublished literary works, addresses, associations and conferences, grant applications and research files, laboratory notebooks, research notes and reports of students, post-doctoral fellows and visiting professors, files on consulting and on three high-technology companies he founded, patent files, and photographs.

**Access:** All files are open with the exception of the restricted files listed below:

- Series 4: B2005-0015/016(10)
- Series 4: B2005-0015/017(01) – (08)

**Boxes:** B2005-0015/001 - /062

B2005-0015/001P

B2006-0029/001 - /008

B2007-0021/001 - /002

B2007-0021/001S

**Accessions:** B2005-0015, B2006-0029, B2007-0021

## **Series 1: Correspondence**

**Date range:** 1963-2004

**Extent:** 1.3 m (11 boxes) of textual records

### **Scope and content**

The correspondence in all three sub-series ranges widely over Professor Guillet's activities as a professor and his own experimental and development work. There are also a few letters on personal matters scattered throughout the first sub-series.

**Note:** A few of the responses in the first sub-series are duplicated in the "out" correspondence. The first two sub-series are inter-related.

For additional correspondence relating to Professor Guillet's administrative and teaching duties at the University of Toronto, see Series 3; for students, post-doctoral fellows, research associates, and visiting professors, see Series 4; for grant applications and research projects, see Series 5; for manuscripts and publications, see Series 6; for consulting projects and companies which Professor Guillet set up or was associated with, see Series 8; and for patents, see Series 9.

**Arrangement:** This series is divided into three sub-series:

- 1.1: General correspondence
- 1.2: Carbon copies of "out" correspondence
- 1.3: Correspondence by author

**Access:** Open

**Boxes:** B2005-0015/001 - /011

### **Sub-series 1.1: General correspondence**

**Date range:** 1963-2004

**Extent:** (8 boxes)

**Scope and content:** general correspondence, primarily incoming but including some copies of responses.

**Arrangement:** Chronological

**Access:** Open

**Boxes:** B2005-0015/001 - /008

### **Sub-series 1.2: Carbon copies of "out" correspondence**

**Date range:** 1971-1988

**Extent:** (3 boxes)

**Scope and content:** carbon copies of "out" correspondence (1971-1988) with some additional documentation

**Arrangement:** chronological

**Access:** Open

**Boxes:** B2005-0015/009 - /011

### **Sub-series 1.3: Correspondence by author**

**Date range:** 1976-2002

**Extent:** (1 box)

**Scope and content:** Correspondence arranged by author. Authors range from colleagues and visiting professors to scientists involved with Professor Guillet's research projects including: Balcom, Robert W. Billingsley, William Robert Bruce, Ramin Farnood, Joachim Klein, Michiel Kruijff, and Alastair North.

**Arrangement:** arranged by author

**Access:** Open

**Boxes:** B2005-0015/011

## **Series 2: Education and early career**

**Date range:** 1944-1959

**Extent:** 0.68 m (7 boxes) of textual records

### **Scope and content:**

The series begins with notebooks containing lectures, laboratory experiments and notes for his undergraduate courses. Guillet kept detailed and careful notes, recording the names of his lecturers, some of whose personal papers have not survived. In this category are Leopold Infeld and B.A. Griffiths (Applied Mathematics); Andrew Gordon and F. R. Lorriman (Chemistry); D. A.. F. Robinson, M. E. G. Waddell, and W. J. Webber (Mathematics); D. S. Ainslee, Colin Barnes and M. F. Crawford (Physics); and W. T. Brown (Religious knowledge/Greek and Roman history). Professors, whose personal papers



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are in the University Archives, include George F Wright (Chemistry) and Elizabeth Allin and John Satterley (Physics).

The course notes are followed by a file on Delta Kappa Epsilon Fraternity and another of correspondence with camera suppliers while a research chemist with Eastman Kodak in Tennessee.

In 1953 Guillet entered Cambridge University from which he received his doctorate in 1955. This series contains notebooks relating to laboratory projects carried out while studying under R. G. W. Norrish. The series ends with files on a conference Guillet gave on his research in France in 1954, a seminar at Vanderbilt University (1958), and employment at Eastman Kodak in Tennessee in 1959.

**Note:** James Guillet registered in mathematics and physics in the Bachelor of Arts program at Victoria College in the autumn of 1944. In second year he switched to honours physics and chemistry, graduating in 1948. In addition to his core honours courses, he took religious knowledge for his first two years, followed by Greek and Roman history. His interest in the latter continued after his graduation with an extra course in 1948-1949. English, French and German (reading courses in French and German his last two years) and physical training rounded out his curriculum. The only extra-curricular activity documented in this series is the Alpha Phi chapter of Delta Kappa Epsilon Fraternity.

**Arrangement:** The arrangement of these files is chronological and by program and course as applicable.

**Access:** Open

**Boxes:** B2005-0015/012 - /014  
B2006-0029/001 - /002  
B2007-0021/001 - /002

### **Series 3: University of Toronto – Administration and teaching files**

**Date range:** 1961-2002

**Extent:** 0.36 m (4 boxes) of textual and graphic records

**Scope and content:**

This series documents some of Professor Guillet's activities at the University of Toronto, both as an administrator and as a lecturer. There are substantial gaps – most of his administrative files remain with the Department and his lecture and teaching material is

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very incomplete. The committee files are more substantial but many committees are not represented. The arrangement is largely alphabetical.

The series begins with files on his sabbatical leave, awards, and his visiting professorship at the University of California at San Diego. These are followed by files on the Committee for Honorary Degrees and correspondence and memoranda from the Department of Chemistry, including the hiring of laboratory technicians. There are only three files of course material and lecture notes, largely from the 1980s. The remaining files relate primarily to committee work: the Inventions Foundation Committee and the University inventions policy generally (1974-1998), the 'Old Scientific Instruments' committee (20001-2002), the Polymer and Colloid Chemistry Group (1989-1990), Presidential Advisory Committee on Supplementary Income and Related Activities (1972-1976), Post-doctoral Scholarly Exchange with China (1979-1983), and the Research Board's Patents Committee Review Task Force (1976-1978). There is a single file on Professor Guillet's administrative activities at Scarborough College. The last file in the series is on the University's Scientific Development Committee (1961-1972).

**Access:** Open

**Boxes:** B2005-0015/014 - /016

**Note:** Photoprints have been removed from B2005-0015/014(14) to B2005-0015/001P (01)

#### **Series 4: University of Toronto: Students, Post-doctoral fellows and visiting professors**

**Date range:** 1963-2002

**Extent:** 1.62 m (13 boxes) of textual records

#### **Scope and content:**

The series begins with a file contain student registers and lists of students (1963-1993), followed by correspondence from students wishing to study under Professor Guillet and relating to fourth-year undergraduate students and summer research assistants. There is also correspondence with students regarding their theses reports (1973-1996), applications from students in China (1983-1990), and letters of reference for students and administrative and academic colleagues (1985-2002).

The remaining files are grouped into the following categories: 'undergraduates', 'exchange students', 'Masters students', 'PhD students' and 'post-doctoral fellows, research associates and visiting (including exchange) professors'. There is also a final category of 'demonstrators', 'research assistants' and 'research associates'. There are some files of general correspondence and files on individuals within each section are arranged alphabetically. Where students took both masters and doctoral degrees, the files are with the higher degree. Many of the students and fellows left their lab books

with Professor Guillet. Those of only one student, Guojun Liu (now a senior professor at Queen's University in Kingston, Ontario), as a doctoral candidate have been retained as a sampling (his masters notebooks were not kept). A few lab books relating to specific projects have also been retained; these are filed in Series 5 and 7.

The undergraduate files consist mostly of the final project reports, with some notes, progress reports and covering correspondence. The earliest exchange proposals were with Russia in the late 1960s; there is a file of correspondence, primarily with notes on research projects at the University of Toronto (1969-1990), notebooks, and then files on research projects of the Moscow Institute of Fine Chemical Technology. There are individual files for the Dutch exchange students and some for the German, along with a file of covering correspondence for the latter. The masters student files may contain correspondence, research notes and progress reports. Many of the doctoral student files also contain programs for oral examinations and thesis defence, and appraisals of theses. A few also contain drafts of papers co-authored with Professor Guillet.

The correspondence in the graduate and post-doctoral files address a wide variety of issues, including those relating to bringing students and post-doctoral fellows to the University of Toronto, research generally, and the specific problems associated with individual research projects. There are also some letters of reference. In addition to correspondence, the files on post-doctoral fellows contain research notes and reports. Some have research proposals, drafts of papers co-authored with Professor Guillet, and evaluations of the programs under which they came to the University of Toronto (for example, the special program for Chinese scholars). In addition to the usual material, the research notebook of one of Professor Guillet's first post-doctoral fellows, Mitsura Koike from Japan (1964-1966), has been retained.

**Note:** Professor Guillet was highly respected and sought after by students and senior scientists alike, both in Canada and abroad. Over the years he supervised 28 PhD theses, 26 masters degrees and 50 post-doctoral fellows and research associates. Some arrived as part of exchange student programs with Dutch, German and Russian institutions. Some of the exchange programs were also for professors, especially those from the Soviet Union/Russia. Guillet's students or post-doctoral fellows now hold academic positions in Canadian, American, British, Japanese, Polish and Singaporean universities and positions in industry in many countries. The emphasis in this series is on their activities at the University of Toronto, but there is also correspondence and associated material in files, especially at the post-doctoral level, of their earlier and subsequent academic and research work.

**See also** Series 3 in B2005-0015, especially the file on 'Post-doctoral scholarly exchange with China, 1979-1983'

**Arrangement:** Files on individuals are arranged alphabetically within each section.  
**Access:** Records in B2005-0015/016 (10) and B2005-0015/017 (01) – (08) are restricted.  
**Boxes:** B2005-0015/016 - /026  
B2006-0029/003 - /004

## Series 5: Research

**Date range:** 1965-2003

**Extent:** 0.84 m (12 boxes) of textual records

### Scope and content:

This series begins with grant applications submitted by Professor Guillet between 1976 and 1996, followed by correspondence and reports on the research projects they funded. Next are notes on research projects at the University of Toronto (1969-1990), notebooks and, especially, his 'Ideas' files with voluminous notes taken between 1965 and about 1995. After these there come files on research projects, arranged alphabetically by the name of the project. The series ends with files on projects carried out by Professor Guillet's students, arranged alphabetically by the name of the student.

The first grant application in the series is for a new drug delivery method for the controlled release of insulin Professor Guillet developed for the Canadian Diabetic Association in 1976-1977. The remainder is primarily to NSERC for research on various characteristics of and applications of polymers, including (after his appointment as Professor Emeritus) the relationship to solar energy, ultraviolet light and the remediation of chemical pollutants in ground water.

Professor Guillet's notes, notebooks and 'Ideas' files cover a wide range of research issues and ideas gleaned from his own research, from notes taken at conferences and in discussions with his colleagues, students, and other scientists. Some of Professor Guillet's ideas are further explored in the research projects described in this series and in Series 7 to 10.

Professor Guillet kept files on a number of research projects that contained notes and a variety of reports. One of the earliest of these at the University of Toronto was ebullimetry; Guillet's research extended from the late 1960s to the mid-1990s. Other projects documented here include gamma-ray radiation, glassy polymers, inverse gas chromatography, photochemistry of fibre-forming polymers, photo-oxidation of polymers and silicone polishes, polymer flocculants, and solar energy.

The remaining files in this series consist of research reports, with covering correspondence, carried out by students and post-doctoral fellows, research associates and visiting professors. Included are research notes and notebooks of two individuals mentioned in the previous series: Valery Kuleznev and Guojun Liu.

**Access:** Open

**Boxes:** B2007-0021/002

B2007-0021/001S

B2005-0015/026 - /033

B2006-0029/004 - /005

## **Series 6: Patents**

**Date range:** 1967-2002

**Extent:** 0.77 m (8 boxes) of textual records

### **Scope and content:**

This series begins with several general files on patent applications, the awarding of Canadian patent number 1,000,000, correspondence regarding patent renewals (with invoices) from two legal firms, and the abandoning by the firm Van Leer of patents relating to ecolyte bio-cyclic plastics. These files are followed by others, arranged alphabetically by title, of patent applications and patents registered by Professor Guillet over thirty years in Canada, the United States, Britain, Europe, Israel, Japan and South Africa. Most of the files relate to a half-dozen patents: advanced frost-free and growth exchange compositions, a graft polymerization process, improved methods for sequencing DNA, a molecular probe apparatus, photochemical reactions for commercial synthesis, converting paper residues to fertilizers ("fertile money"), polymeric flocculants, the production of hydrogen peroxide, the sequencing of nucleic acids, and the labelling of polymers and the sequencing of nucleic acids.

**Notes:** Professor Guillet's patents were a natural outgrowth of his innovative research, his business acumen, and his determination to show to the world how basic research could lead to industrial innovation. During his lifetime he registered more than 100 patents and in 1975 he was given a medal and awarded the 1,000,000<sup>th</sup> Canadian patent number for his work in biodegradable plastics.

**See also** Series 1 and 7

**Access:** Open

**Boxes:** B2005-0015/033 - /037

B2006-0029/005 - /007

## **Series 7: Consulting and industrial innovation**

**Date range:** 1963-2002

**Extent:** 0.97 m (9 boxes) of textual records

### **Scope and content:**

The series begins with a general file on consulting jobs, followed by files on companies to which he acted as a consultant, then those he founded (which begin in midway through box 041); each section is arranged in alphabetical order. The files contain correspondence, memoranda, notes, research notes and reports.

Of the major companies for which Professor Guillet acted as a consultant, only IOPTEx Research Inc. is missing from this series. The most substantial files are on two companies, Albchem Industries Ltd. and the Allied Chemical Company.

Throughout his career, Professor Guillet acted as a consultant on research and technology to a number of companies and also appeared as an expert witness in court cases. At the same time, he founded and was actively involved with running three small Canadian high-technology companies: EcoPlastics Limited, Medipro Sciences Limited, and Solarchem Corporation.

The series ends with two other companies of which Professor Guillet was involved, Seabreeze Plastics, of which he was a director, and Syntheria Pharmaceuticals, that experimented with liquid dressings.

**Note:** Guillet's research for Albchem Industries Ltd was the development of technology related to the manufacture of hydrogen peroxide centring on a proprietary polymer for which he had submitted a patent application in the United States (see box 036). Several doctoral students, particularly David Gravett, assisted him in this project; his notebooks and the progress reports are with the files. With the Allied Chemical Company, Guillet was acting in his capacity as president of Ecoplastics and worked on two projects – the development of commercial photoresists for deep ultraviolet lithography and Allied tar sands flocculent program. The earliest company for which Professor Guillet acted as a consultant was the Glidden Company of Canada, with which he was associated for twenty years. Other clients (the list is not exhaustive) included oil companies Esso/Imperial Oil/Exxon, British Petroleum, Mobil Oil, and Standard Oil; Amersham Pharmacia Biotech, a Swedish company interested in Guillet's work on DNA sequencing; G-Nano LLC, which sought Guillet's expertise in cross-linked nano-particle technology; the Institute for Chemical Science and Technology, seeking expertise in the tracing of chemical pollutants; Johnson & Johnson (surface coating of spectacle lenses); Pan-Tec Inc., a manufacturer of composite tiles; Pheromone

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Sciences Ltd. (mammalian pheromones); Primaxis Technology Ventures Inc., which was interested in the Polytrace technology that Guillet had developed; and Webb Ocular Prosthetics which specialized in artificial eyes. There is correspondence with Professor Guillet's former employer, Tennessee Eastman Company, with which he maintained an association for many years after he joined the University of Toronto.

The files on the companies Professor Guillet founded underline the problems they faced in finding sufficient financial backing to develop their ideas and market their products. EcoPlastics Limited was eventually taken over by American Eco Corporation and ecolyte degradable plastics were sold worldwide by Ecolyte Atlantic Inc. of Baltimore, Maryland under licence from EcoPlastics. The files on this company contain correspondence, notes, minutes, press coverage, reports and documents relating to investments by the Ahd Investors Syndicate. By the time Medipro Sciences Limited was sold to Pharma Patch PLC in 1993, it had achieved some successes in developing the medical applications of plastic materials. Two projects are documented here: a contract to develop new delivery systems for contraceptive steroids for the World Health Organization, and the development of wound dressings for burn casualties. The single file on Solarchem contains correspondence, financial proposals and contracts about Professor Guillet's inventions in solar chemistry.

Further correspondence may be found in Series 1.

**Access:** Open

**Boxes:** B2005-0015/037 - /043

B2006-0029/007 - /008

### **Series 8: Professional associations and conferences**

**Date range:** 1955-2002

Extent: 0.28 m (3 boxes) of textual records

#### **Scope and content:**

The files in this series are related primarily to conferences that Professor Guillet attended, editorial boards on which he sat, and trips as a visiting academic to Japan (1997 and 1999), Russia (1966) and the United Kingdom (1991 and 1993). There are, in addition, files on three groups in which he played an active role: the Science and Media Group, University of Winnipeg/CIDA Project (which studied the application of solar systems to water treatment in Egypt), and the United Church of Canada's Task Group on Nuclear Energy. There is also a file on 'Science policy in Canada'.

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The files contain correspondence, memoranda, minutes, notes, programmes, reports, and drafts of addresses.

**Note:** The conference files reflect Professor Guillet's wide intellectual interests. He seldom missed the annual conference of the Canadian Society of Chemistry; some of the later ones are documented here. Several conferences focus on polymers – the Canadian High Polymer Forums (1964, 1965, and 1998), the Gordon Conferences (including the chemistry and physics of coatings and films), the High Polymer Research Group conferences in England, and the IUPAC (International Union of Pure and Applied Chemistry) World Polymer Congress in 1998 and 2000. Guillet's visit to Russian polymer institutes in 1966 was a factor in bringing Valery Kuleznev and Russian students to Toronto. In Japan, in 1997, he attended the 6<sup>th</sup> Society of Polymer Science, Japan International Polymer Conference, and in 1999 he was honoured with that Society's International Award. Other conference files cover biodegradable plastics, electron beam radiation, inverse gas chromatography, and solar energy storage. In 1997 Guillet participated in the IUPAC General Assembly in Geneva and then delivered the plenary lecture at its conference in Krakow, Poland.

**Arrangement:** Alphabetical

**Access:** Open

**Boxes:** B2006-0029/008

B2005-0015/044 - /045



## **Series 9: Manuscripts and publications**

**Date range:** 1955-2000

**Extent:** 2.15 m (17 boxes) of textual and graphic material

### **Scope and content:**

The files contain any to all of the following: drafts of articles, offprints, covering correspondence, contracts and related documents, notes, reviewers' comments, royalty statements, and photographs. The arrangement is chronological, with the published papers appearing first, followed by sixteen papers that were either not submitted or not accepted for publication. The files of unpublished manuscripts, in particular, contain covering notes by Susan Arbuckle, Professor Guillet's secretary.

Drafts of and correspondence relating to some publications are found in other series, especially Series 1, 5 and 7.

**Note:** Professor Guillet's publications span fifty years, from 1954 to 2005. His curriculum vitae lists 282 scientific papers and chapters of books, and two book published by 2002. More papers have appeared since. He first came to the attention of the public internationally in 1970 when *Time Magazine* announced that he had filed application for four basic patents on biodegradable plastics. His *Polymers and Ecological Problems*, an edited volume of papers from a symposium on the subject, appeared in 1973. His *Polymer Photophysics and Photochemistry* (1985) is still a standard reference. About fifty of his publications are missing from this series; the largest gap appears at the beginning of his career – papers #1 and 5-23 (1954, 1960-1967). Some papers appeared with Guillet as the sole author but most were the result of collaborative research with his students, post-doctoral fellows and others in his discipline.

Many of Professor Guillet's papers were published in series as a part of ongoing research into specific attributes of polymers. Often two papers would appear (the first in 1955) on a particular problem, but sometimes the number of papers would be ten or more. Nineteen were published on the 'photochemistry of ketone polymers' between 1968 and 1985, while twenty-seven in the series 'studies of the antenna effect in polymer molecules', appeared between 1982 and 2002. Two other papers in this series were not published but are with the unpublished manuscripts.

Photoprints have been removed from B2005-0015/046(14) to B2005-0015/001P (02).  
Photoprints have been removed from B2005-0015/046(16) to B2005-0015/001P (03).

**Access:** Open

**Boxes:** B2005-0015/045 - /061

## **Series 10: Addresses**

**Date range:** 1971-2003 and undated

**Extent:** 0.26 m (3 boxes) of textual records

### **Scope and content:**

The files in this series consist of Professor Guillet's surviving addresses (note the gaps) of a professional nature and nearly all relating to polymers. There are several files of notes and abstracts for these addresses, dated and undated, followed by addresses arranged chronologically. Few are accompanied by covering letters; for these and related correspondence, the researcher is directed primarily to Series 1. Some addresses can also be found in the conference files in Series 8. There are also a few lectures on cassette tapes. These date from about 1979 to 1996 and include Guillet's Canadian Institute lecture in 1990 as well as lectures given at international conferences in Anaheim California, Dallas Texas, Prague, Stockholm, Seoul and Tokyo.

**Note:** Professor Guillet was in great demand as a public speaker and thus had to turn down many invitations. But he still found time from his busy schedule to speak to groups other than professional ones, including students and community organizations. Though such addresses are not represented in this series, information on them can be gleaned from the correspondence in Series 1.

**Access:** Open

**Boxes:** B2005-0015/062

B2007-0021/001S

B2006-0029/008

## **Series 11: Photographs**

**Date range:** 1969-1992

**Extent:** (1 box) of graphic material; 24 photographs, 16 colour transparencies

**Scope and content:** Formal portraits, publicity prints and snapshots documenting Professor Guillet's research. In particular there are prints showing Professor Guillet in his lab with Arthur Stein and Andjelka Lavoie, working with the molecular probe apparatus in 1969. This probe was used to study the glass transition of polypropylene.

James E. Guillet fonds  
B2005-0015, B2006-0029  
B2007-0021

University of Toronto Archives

**Access:** Open

**Boxes:** B2005-0015/001P

## Appendix

### Series 1: Correspondence

File number	File title	Date range
B2005-0015/001	General correspondence	1963-1969
B2005-0015/002	General correspondence	1970-1972
B2005-0015/003	General correspondence	1973-1975
B2005-0015/004	General correspondence	1976-1979
B2005-0015/005	General correspondence	1980-1985
B2005-0015/006	General correspondence	1985-1989
B2005-0015/007	General correspondence	1989-1993
B2005-0015/008	General correspondence	1994-1999
B2005-0015/009	General correspondence Out correspondence	2000-2004 1971-1974
B2005-0015/010	Out correspondence	1975-1979
B2005-0015/011	Out correspondence Correspondence (author): Bruce J. Balcom – Alistair M. North	1976-2002

### Series 2: Education and early career

File number	File title	Date range
B2005-0015/012	University of Toronto. BA course notes, I-III	1944-1946
B2006-0029/001	University of Toronto. BA course notes, I-III	1944-1947
B2007-0021/001	University of Toronto. BA course notes, I-III	1944-1947
B2007-0021/002 (01) – (02)	University of Toronto. BA course notes, III	1946-1947
B2005-00015/013 (01) – (02)	University of Toronto. BA course notes, III-IV	1946-1948
B2006-0029/002	University of Toronto. BA course notes, III-IV, and post-degree; Delta Kappa Epsilon Fraternity Correspondence with camera suppliers while at Eastman Kodak in Tennessee	1946-1949  1950-1951 1950-1952
B2005-00015/013 (03)-(09)	Cambridge University. PhD, notebooks	1953-1954
B2007-0021/002 (03)- (04)	Cambridge University. Notebook; Physical chemistry laboratory. Graph notebooks # 1 and 2	1952-[1954?]

File number	File title	Date range
B2005-0015/014 (01)-(04)	Cambridge University. PhD, notebook 'C' – Research chemist, Eastman Kodak	1954-1959

**Series 3: University of Toronto – Administration and teaching files**

File number	File title	Date range
B2005-0015/014 (05)-(18)	Sabbatical leave – Department of Chemistry	1970-2000
B2005-0015/015	Department of Chemistry – Investors policy	1968-2002
B2005-0015/016 (01)-(09)	Old Scientific Instruments Committee – Scientific Development Committee	1961-2002
B2005-0015/001P	Photoprints have been removed from B2005-0015/014(14) to B2005-0015/001P (01)	

**Series 4: University of Toronto: Students, Post-doctoral fellows and visiting professors**

File number	File title	Date range
B2005-0015/016 (10)	Student registers	1965-1976
B2005-0015/017 (01)-(13)	Correspondence re theses, letters of reference; undergraduate students, A-P	1973-2002 1987-1999
B2006-0029/003 (01)	Undergraduate student, P	1981
B2006-0029/003 (02)-(03)	Exchange students, R, S	1990, 1994
B2005-0015/018	Undergraduate students, R-Z; exchange students; Masters students, B and D	1965-1994
B2005-0015/019	Masters students, J-S	1964-1990
B2006-0029/003 (03)-(08)	Masters students, A-J	1963-2000
B2005-0015/019	Doctoral students, A-F	1971-1992
B206-0029/003 (09)	Doctoral student, C	1975-1976
B2005-0015/20	Doctoral students, G-K	1965-1996
B2005-0015/021	Doctoral students, L-N	1965-2002
B2005-0015/022	Doctoral students, N-T	1974-1995
B2005-0015/023	Doctoral student, White	1989-1993
B2006-0029/003 (10)-(13)	Post-doctoral applications and 'regrets'	1995-2002
B2005-0015/023	Post-doctoral fellows, etc., A-H	1968-2002
B2006-0029/004 (01)-(06)	Post-doctoral fellows, etc., B, D, H, L and S	1970-1999

File number	File title	Date range
B2005-0015/024	Post-doctoral fellows, etc., I-P	1963-2002
B2005-0015/025	Post-doctoral fellows, etc., P-S	1965-1997
B2005-0015/026 (01)- (05)	Post-doctoral fellows, etc., T-W	1982-1995
B2006-0029/004(07)- (14)	Visiting and exchange professors and scholars, A-G Demonstrators, research assistant and research associates, A-H	1980-1995 1966-1991

### Series 5: Research

File number	File title	Date range
B2007-0021/002 (06)	Department of Chemistry notebook	1973-1991
B2005-0015/026 (06)- (17)	Grant applications and research projects	1977-2002
B2006-0029/004 (18)	'Ideas' notebook	1952-1964
B2005-0015/027	Research projects, notes, 'Ideas' files	1969-2000
B2005-0015/028	'Ideas' files, Ebulliometer projects – photochem-istry of fibre-forming polymers	1965-1995
B2006-0029/004 (19)- (21)	Radioisotope permits Polymer flocculants project Solar energy project	1979-2003
B2005-0015/029 (01)- (04)	Polymers – silicone polishes	1973-1993
B2006-0029/005 (01)- (20)	Solar energy projects	1979-1986
B2006-0029/005 (01)- (03)	Solar energy projects Correspondence, Nicholas Burke and Nikolai Loukine/Steven Holdcroft and David Ganders	1982-1986 1995-1997
B2005-0015/029 (05)- (10)	Research: students and post-doctoral fellows, etc.– Breton – Gravett	1973-1993
B2006-0029/005 (04)	Research: students and post-doctoral fellows, etc.–Gravett	n.d.
B2005-0015/030	Research: students and post-doctoral fellows – Gu - Liu	1965-1990
B2005-0015/031	Research: students and post-doctoral fellows. – Liu	1986
B2005-0015/032	Research: students and post-doctoral fellows – Liu - Shinobu	1970-2000
B2005-0015/033	Research: students and post-doctoral fellows. – Slivinksas – Yilmaz	1968-1994

File number	File title	Date range
B2007-0021/001S	Ideas on Antenna Polymers recorded on cassette tape Dec. 4 1981.	1981

### Series 6: Patents

File number	File title	Date range
B2005-0015/033 (10)-(14)	Correspondence – Canadian patent #1,000,000	1967-1988
B2006-0029/005 (05)-(09)	McCarthy-Tétrault. Correspondence re patent renewals; invoices	1988-2000
B2006-0029/005 (10)-(13)	Ridout & Maybee. Correspondence re patent renewals; invoices	1991-2003
B2005-0015/034	Van Leer; patents – 'Drug delivery method – 'Photochemical reactions for commercial synthesis (International patents)	1969-1997
B2006-0029/006 (01)-(05)	'Advanced frost-free and growth exchange compositions'	1998-2004
B2006-0029/006 (06)-(07)	'Graft polymerization process'	1998-1999
B2006-0029/006 (08)-(09)	'Improved methods for sequencing DNA'	1997-1998
B2005-0015/035	'Photochemical reactions for commercial synthesis (USA patents) – 'Photoresist compositions – Allied Chemical Co.'	1977-1999
B2005-0015/036	'Production of hydrogen peroxide' – 'Aqueous phase production of hydrogen peroxide'	1993-2002
B2005-0015/037 (01)-(02)	Hydrogen peroxide research and patents (primarily 'non-aqueous production of hydrogen peroxide')	1998-1999
B2006-0029/007 (01)-(02)	'Sequencing of nucleic acids'	1997-1999
B2006-0029/007 (03)-(06)	'Labelling of polymers and sequencing of nucleic acids'	1998-2002

### Series 7: Consulting and industrial innovation

File number	File title	Date range
B2005-0015/037 (03)-(12)	arpeco Engineering Ltd. – Albchem Industries Ltd.	1984-2002

File number	File title	Date range
B2006-0029/007 (07)-(09)	Albchem Industries Ltd.; Amersham Pharmacia Biotech	1994-1998
B2005-0015/038	Albchem Industries Ltd. and Allied Chemical Company	1981-1997
B2005-0015/039	Allied Chemical tar sands flocculant program	1974-1992
B2005-0015/040	British Petroleum – Synergistics Industries Ltd.	1964-1997
B2006-0029/007 (19)	G-Nano, LLC; Innotech, Inc.	1998, 2004
B2006-0029/008 (01)-(06)	Institute for Chemical Science and Technology, Johnson & Johnson, Pheromone Sciences Ltd., Prinaxis, Shaw Industries Ltd., Trojan Technologies Inc.	1963-1996 1970-1993 1987-1992
B2005-0015/041	Tennessee Eastman Company – Web Tech Inc. Aheed Investors Syndicate, Ecoproducts Ltd./Ecoplastics Ltd., Guillet Holdings, Inc. Medipro Sciences Ltd.	1963-1996 1970-1993 1987-1992
B2005-0015/042	Medipro Sciences Ltd.	1975-1997
B2005-0015/043	Medipro Sciences Ltd. – Syntheria Pharmaceuticals	1975-1997

### Series 8: Professional associations and conferences

File number	File title	Date range
B2006-0029/008 (07)-(14)	Canadian Society for Chemistry conferences Canadian High Polymer Forum (1998) International Conference on Inverse Gas Chromatography (1 <sup>st</sup> : 2001 : London) IUPAC General Assembly (1997) IUPAC World Polymer Congress (1998)	1997-2001
B2005-0015/044	Canadian High Polymer Forums – Visit to Russian polymer institutes	1963-2002
B2005-0015/045 (01)-(08)	Trips to United Kingdom; Science and Media Group – World Polymer Congress	1955-2000

### Series 9: Manuscripts and Publications

File number	Mss#	File title	Date range
B2005-0015/045 (09)	2	J. E. Guillet and R. G. W. Norrish. The Photolysis of Poly Methyl Vinyl Ketone:	1955



File number	Mss#	File title	Date range
		Synthesis of Block Polymers, <i>La Ricerca Scientifica</i> , 25, 1-17 (1955)	
B2005-0015/045 (10)	3	J. E. Guillet and R. G. W. Norrish. The Photolysis of Polymethylvinylketone: I. Reactions and Kinetics, <i>Proceedings of the Royal Society, A</i> , 233, 153-72 (1955)	1955
B2005-0015/045 (11)	4	J. E. Guillet and R. G. W. Norrish. The Photolysis of Polymethylvinylketone. II. The Preparation of Graft Polymers, <i>Proceedings of the Royal Society, A</i> , 233, 172-83 (1955)	1955
B2005-0015/045 (12)	24	J. Dhanraj and J. E. Guillet. Photochemical Synthesis of Block Copolymers, <i>Journal of Polymer Science, Part C</i> , 23, 433-39 (1968)	1967-1968
B2005-0015/045 (13)	25	F. J. Golemba, J. E. Guillet and S. C. Nyburg. Synthesis and Crystal Structure of Isotactic Poly-4-phenyl-1-butene, <i>Journal of Polymer Science, Part A-1</i> , 6, 1341-49 (1968)	1967
B2005-0015/045 (14)	26	M. Heskins and J. E. Guillet. Mechanism of Ultraviolet Stabilization of Polymers, <i>Macromolecules</i> , 1, 97-98, Jan.-Feb. (1968)	1967
B2005-0015/46 (01)	27	G. H. Hartley and J. E. Guillet. Photochemistry of Ketone Polymers. I. Studies of Ethylene-Carbon Monoxide Copolymers, <i>Macromolecules</i> , 1, 165-70, March-April (1968)	1967-1968
B2005-0015/46 (02)	28	D. I. C. Kells, M. Koike and J. E. Guillet. Direct Determination of Crosslinking and Chain Scission in Polymers, <i>Journal of Polymer Science, Part A-1</i> , 6, 595-601 (1968)	1967
B2005-0015/46 (03)	29	G. H. Hartley and J. E. Guillet. Photochemistry of Ketone Polymers. II. Studies of Model Compounds <i>Macromolecules</i> , 1, 413-17, Sept.-Oct. (1968)	1968
B2005-0015/46 (04)	30	R. S. Mitchell, S. McLean and J. E. Guillet. 'Polymerization and Structure of Allyl-	1968

File number	Mss#	File title	Date range
		Substituted Cyclopentadienes, <i>Macromolecules</i> , 1 417-24 Sept.-Oct. (1968)	
B2005-0015/46 (05)	31	J. Y. Guttman and J. E. Guillet. Polymerization of Propylene on Single Crystals of $\alpha$ -Titanium Trichloride, <i>Macromolecules</i> , 1, 461-63, Sept.-Oct. (1968)	1968
B2005-0015/46 (06)	32	H. J. Bruckman, Jr. and J. E. Guillet. Theoretical Calculations of Hot-Spot Initiation in Explosives, <i>Canadian Journal of Chemistry</i> , 46, 20, 3221-28 (1968)	1967-1968
B2005-0015/46 (07)	33	J. E. Guillet, J. Dhanraj, F. J. Golemba and G. H. Hartley. Fundamental Processes in the Photo degradation of Polymers, <i>Advances in Chemistry Series</i> , No. 85, 272- 86 (1968)	1967
B2005-0015/46 (08)	34	M. Heskins and J. E. Guillet. Solution Properties of Poly (N-isopropylacrylamide), <i>Journal of Macromolecular Science</i> , A2, 1441-55, December (1968)	1968
B2005-0015/46 (07)	35	J. E. Guillet, J. Dhanraj, F. J. Golemba and G. H. Hartley. Processus Fondamentaux dans la Photodégradation des Polymères, <i>Revue Général de Caoutchoucs et Plastiques</i> , 46, 82-90 (1969)	1967
B2005-0015/46 (09)	36	F. J. Golemba and J. E. Guillet. Mechanisms of Ultraviolet Stabilization of Polymer Films, <i>Journal of Paint Technology</i> , 41, 315-20, May (1969)	1969-1970
B2005-0015/46 (10)	37	O. Smidsrød and J. E. Guillet. Study of Polymer-Solute Interactions by Gas Chromatography, <i>Macromolecules</i> , 2, 272- 77 (1969)	1968-1969
B2005-0015/46 (11)- (12)	38	J. E. Guillet and J. C. Gilmer. Decomposition of Lauroyl, Decanoyl, and Octanoyl Peroxides in Solution, <i>Canadian Journal of Chemistry</i> , 47, 23, 4405-11 (1969)	1963-1069
B2005-0015/46 (13)	39	D. I. C. Kells and J. E. Guillet. Calculation of Molecular Weight	1968-1969

File number	Mss#	File title	Date range
		Distributions for Polymers Undergoing Random Crosslinking and Scission, <i>Journal of Polymer Science, Part A-2</i> , 7, 1895-1905 (1969)	
B2005-0015/46 (14)	40	A. Lavoie and J. E. Guillet. Estimation of Glass Transition Temperatures from Gas Chromatographic Studies on Polymers, <i>Macromolecules</i> , 2, 443-46, July-August (1969) [photos removed to /02P]	1968-1969
B2005-0015/46 (41)	41	F. J. Golemba and J. E. Guillet. Ultraviolet Stabilization of Plastics, <i>Society of Plastics Engineers Journal.</i> , 26, 88-91, April (1970)	1970
B2005-0015/46 (42)	42	J. E. Guillet and A. N. Stein. Study of Crystallinity in Polymers by the Use of "Molecular Probes", <i>Macromolecules</i> , 3, 102-5, Jan.-Feb. (1970) [photos removed to /03P]	1969-1970
B2005-0015/47 (01)	43	M. Heskins and J. E. Guillet. Photochemistry of Ketone Polymers. III. Energy Transfer in EthyleneCarbon Monoxide Polymers, <i>Macromolecules</i> , 3, 224-31 March-April (1970)	1969-1970
B2005-0015/47 (02)	44	M. Heskins and J. E. Guillet. Energy Transfer in Polymeric Ketones in the Solid Phase <i>Photochemistry of Macromolecules</i> , ed. R. F. Reinisch, Plenum Press (1970)	1969-1970
B2005-0015/47 (03)	45	J. Y. Guttman and J. E. Guillet. Mechanism of Propylene Polymerization on Single Crystals of $\alpha$ -Titanium Trichloride, <i>Macromolecules</i> , 3, 470-72 (1970)	1970
B2005-0015/47 (04)	46	J. E. Guillet Molecular Probes in the Study of Polymer Structure <i>Journal of Macromolecular Science -- Chemistry</i> , A4 (7), 1669-74, November (1970)	1969-1970
B2005-0015/47 (05)	47	D. G. Gray and J. E. Guillet. The Application of the Molecular Probe Technique to a Study of Polymer Crystallization Rates, <i>Macromolecules</i> , 4, 129-33, Jan.Feb. (1971)	1970-1971

File number	Mss#	File title	Date range
B2005-0015/47 (06)	48	Y. Amerik, W. F. Reynolds and J. E. Guillet. Influence of Monomer Concentration on the Structure of Poly(methyl Methacrylate) Polymerized by Butyllithium, <i>Journal of Polymer Science, Part A-1</i> , 9, 531-41 (1971)	1969-1971
B2005-0015/47 (07)	49	L. P-Y. Lee, B. McAneney and J. E. Guillet. Photolysis of 4-Methyl 3-Hexanone and 2-Methoxy 3-Pentanone in Hydrocarbon Solution, <i>Canadian Journal of Chemistry</i> , 49, 8, 1310-14 (1971)	1969-1971
B2005-0015/47 (08)	50	D. Patterson, Y. B. Tewari, H. P. Schreiber and J. E. Guillet. Application of Gas -Liquid Chromato-graphy to the Thermodynamics of Polymer Solutions, <i>Macromolecules</i> , 4, 356-59 (1971)	1970
B2005-0015/47 (09)	51	A. N. Stein, D. G. Gray and J. E. Guillet Molecular Probe Studies of Crystallinity in Polyethylene, <i>British Polymer Journal</i> , 3, 175-76, July (1971)	1970-1971
B2005-0015/47 (10)	52	Y. Amerik and J. E. Guillet. The Photochemistry of Ketone Polymers. IV. Photolysis of Methyl Vinyl Ketone Copolymers. <i>Macromolecules</i> , 4, 375-79, July-August (1971)	1970-1971
B2005-0015/47 (11)	53	J. E. Guillet, I. R. Peat and W. F. Reynolds. The Effect of Lanthanide Shift Reagents on the N. M. R. Spectrum of Stereo-regular Poly (Methyl Methacrylate), <i>Tetrahedron Letters</i> , 38, 3493-96 (1971)	1971
B2005-0015/47 (12)	54	J. E. Guillet, E. Dan, R.S. Mitchell and J. P. Valleau. Detection of Low Temperature Transitions in Amorphous Polymers, <i>Nature</i> , 234, 135-36 (1971)	1971-1972
B2005-0015/47 (13)	55	F. J. Golemba and J. E. Guillet. Photochemistry of Ketone Polymers. V.	1969-1971

File number	Mss#	File title	Date range
		Photochemistry of the Linear 2-Alkanones in Solution, <i>Macromolecules</i> , 5, 63-68 (1972)	
B2005-0015/47 (14)	56	J. E. Guillet. Fundamental Processes in the UV Degradation and Stabilization of Polymers, <i>Pure and Applied Chemistry</i> , 30, 1-2, 135-44 (1972)	1972
B2005-0015/47 (15)	57	F. J. Golemba and J. E. Guillet. Photochemistry of Ketone Polymers. VII. Polymers and Copolymers of Phenyl Vinyl Ketone, <i>Macromolecules</i> , 5, 212-16, April (1972)	1971-1972
B2005-0015/47 (16)	58	D. G. Gray and J. E. Guillet. A Gas Chromatographic Method for the Study of Sorption on Polymers, <i>Macromolecules</i> , 5, 316-21, June (1972)	1971-1972
B2005-0015/47 (17)	59	P. I. Plooard and J. E. Guillet. Photochemistry of Ketone Polymers, VI: Photolysis of Keto Diesters and their Copolyesters, <i>Macromolecules</i> , 5, 405-10, August (1972)	1971-1972
B2005-0015/48 (01)	60	A. C. Somersall and J. E. Guillet. Photochemistry of Ketone Polymers. VIII. Fluorescence and Energy Transfer of Aliphatic and Poly(vinyl ketones) <i>Macromolecules</i> , 5, 410-15, August (1972)	1971-1972
B2005-0015/48 (02)	61	J. E. Guillet, R. S. Mitchell, E. Dan and J. P. Valteau. Light Scattering in Amorphous Poly(Ethyl Methacrylate) at Low Temperatures, <i>Journal of Polymer Science, Part B</i> , 10, 625-29 (1972)	1972
B2005-0015/48 (03)	62	J. E. Guillet. Photochemistry in Macromolecular Systems, <i>Naturwissenschaften</i> , 59, 503-9 (1972)	1971-1972
B2005-0015/48 (04)	63	A. C. Somersall and J. E. Guillet. Triplet-Triplet Annihilation and Excimer Fluorescence in Poly(naphthyl methacrylate), <i>Macromolecules</i> , 6, 218-23, April (1973)	1972-1973

File number	Mss#	File title	Date range
B2005-0015/48 (05)	64	D. G. Gray and J. E. Guillet. Studies of Diffusion in Polymers by Gas Chromatography, <i>Macromolecules</i> , 6, 223-27, April (1973)	1972-1973
B2005-0015/48 (06)	65	E. Dan, A. C. Somersall and J. E. Guillet. Photo-chemistry of Ketone Polymers. IX. Triplet Energy Transfer in Poly(vinyl ketones), <i>Macromolecules</i> , 6, 228-30, April (1973)	1972-1973
B2005-0015/48 (07)	66	E. Dan and J. E. Guillet. Photochemistry of Ketone Polymers. X. Chain Scission Reactions in the Solid State <i>Macromolecules</i> , 6, 230-35, April (1973)	1972-1973
B2005-0015/48 (08)	67	J. O. Pavlik, P. I. Plooard, A. C. Somersall and J. E. Guillet. Photochemistry of Ketones in Carbon Tetrachloride Solution <i>Canadian Journal of Chemistry</i> , 51, 1435-40 (1973)	1972
B2005-0015/48 (09)	68	J. E. Guillet and M. Galin. Studies of Polyacryloni-trile Structure by Inverse Chromatography <i>Journal of Polymer Science, Polymer Letters</i> , 11, 233-37 (1973)	1972-1973
B2005-0015/48 (10)	70	J. E. Guillet. Study of Polymer Structure and Inter-actions by Inverse Gas Chromatography, <i>New Developments in Gas Chromatography</i> , ed. H. Purnell. New York: Wiley (1973)	1972-1973
B2005-0015/48 (11)	71	J. E. Guillet. Mécanismes de Stabilisation aux Ultra-violets des Polymères, <i>Chimie &amp; Industrie-Génie Chimique</i> , 106, 977-82 (1973)	1971-1973
B2005-0015/48 (12)	72	J. E. Guillet. The Role of Energy Transfer in the Stabilization of Polymers, <i>Pure and Applied Chemistry</i> , 36, 1-2, 127-40 (1973)	1972-1973
B2005-0015/48 (13)	73	J. A. Slivinskas and J. E. Guillet. $\gamma$ -Radiolysis of Ketone Polymers. I. Studies of Symmetrical Aliphatic Ketones as Model Compounds, <i>Journal of Polymer Science</i> ,	1973

File number	Mss#	File title	Date range
		Polymer Chemistry Edition, 11, 3043-56 (1973)	
B2005-0015/48 (13)	74	J. A. Slivinskas and J. E. Guillet. $\gamma$ -Radiolysis of Ketone Polymers. II. $\gamma$ -Irradiation of Styrene-Methyl Vinyl Ketone Copolymers, <i>Journal of Polymer Science, Polymer Chemistry Edition</i> , 11, 3057-70 (1973)	1973
B2005-0015/48 (14)	75	A. C. Somersall, E. Dan and J. E. Guillet. Photo-chemistry of Ketone Polymers. XI. Phosphorescence as a Probe of Subgroup Motion in Polymers at Low Temperatures, <i>Macromolecules</i> , 7, 233-44 (1974)	1973-1974
B2005-0015/48 (15)	76	D. G. Gray and J. E. Guillet Gas Chromatography on Polymers at Temperatures Close to the Glass Transition, <i>Macromolecules</i> , 7, 244-47 (1974)	1973-1974
B2005-0015/48 (16)	77	R. S. Mitchell and J. E. Guillet. Brillouin Scattering in Amorphous Polymeric Solids, <i>Journal of Polymer Science, Polymer Physics Edition</i> , 12, 713-33 (1974)	1973-1974
B2005-0015/049(01)	78	D. G. Gray and J. E. Guillet. Open Tubular Columns for Studies on Polymer Stationary Phases by Gas Chromatography, <i>Journal of Polymer Science, Polymer Letters Edition</i> , 12, 231-35 (1974)	1973-1974
B2005-0015/049(02)	79	J. A. Slivinskas and J. E. Guillet. $\gamma$ -Radiolysis of Ketone Polymers. III. Copolymers of Ethylene and Carbon Monoxide, <i>Journal of Polymer Science, Polymer Chemistry Edition</i> , 12, 1469-91 (1974)	1973-1974
B2005-0015/049(03)	82	P. H. Jones, D. Prasad, M. Heskins, M. H. Morgan and J. E. Guillet. Biodegradability of Photodegraded Polymers. I. Development of Experimental Procedures <i>Environmental Science and Technology</i> , 8, 919-23 (1974)	1973-1974

File number	Mss#	File title	Date range
B2005-0015/049(03)	83	J. E. Guillet, T. W. Regulski and T. B. McAneney. Biodegradability of Photodegraded Polymers. II. Tracer Studies of Bio-oxidation of Ecolyte PS Polystyrene <i>Environmental Science and Technology</i> , 8, 923-25 (1974)	1973-1974
B2005-0015/049(04)	84	J. E. Guillet, B. Houvenaghel Defoort, T. Kilp, N. J. Turro, H.-C. Steinmetzer and G. Schuster. "Dark" Initiation of the Photosensitized Degradation of a Styrene-Methyl Isopropenyl Ketone Copolymer by Thermally Generated Acetone Triplets, <i>Macromolecules</i> , 7, 942-46, October (1974)	1974
B2005-0015/049(05)	85	J. E. Guillet. The Role of Molecular Mobility in Polymer Photochemistry, <i>Proceedings of the International Symposium on Macromolecules</i> , Rio de Janeiro, July 26-31, 1974, ed. E. B. Mano, Elsevier, Amsterdam, 1975	1974
B2005-0015/049(06)	86	L. Alexandru and J. E. Guillet. Photochemistry of Fiber-Forming Polymers. I. Acrylonitrile Copolymers and Fibers Containing Ketone Groups, <i>Journal of Polymer Science, Polymer Chemistry Edition</i> , 13, 483-94 (1975)	1974
B2005-0015/049(07)	87	J.-M. Braun and J. E. Guillet. Determination of Crystallinity of Olefin Copolymers and Polyolefin Pow-ders by Inverse Gas Chromatography, <i>Journal of Polymer Science, Polymer Chemistry Edition</i> , 13, 1119-31 (1975)	1974
B2005-0015/049(08)	88	J.-M. Braun, A. Lavoie and J. E. Guillet. Evaluation of a Gas Chromatographic Method for the Determination of Glass Transitions in Polymers, <i>Macromolecules</i> , 8 311-315, April (1975)	1974-1975
B2005-0015/049(09)	89	J.-M. Braun. and J. E. Guillet. Comments on the Paper "Polymer-Solvent Interactions from Gas-Liquid Chromatography with	1974-1975



File number	Mss#	File title	Date range
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B2005-0015/062	Addresses	1955-1968
B2007-0021/001S	Addresses	1976-1996
B2006-0029/008 (15)-(16)	Addresses	1998, 2000