



Chemical Engineering Department

Alan Jeffrey GIACOMIN PhD PE PEng FSOR

pronounced 'jiak-ä-min

*Tier 1 Canada Research Chair in Rheology
President, Canadian Society of Rheology
Editor-in-Chief, Physics of Fluids
Fellow, The Society of Rheology
Senator, Queen's University*

Professor of Chemical Engineering,
Engineering Chemistry, Mechanical and
Materials Engineering, and of Physics,
Engineering Physics and Astronomy

314 Dupuis Hall
19 Division Street
Kingston, ON K7L 3N6

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Skype ID: giacominajeffrey
(613) 533-2768 (work office)
Time Zone: Eastern

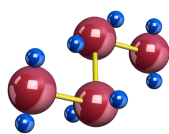
President, *Giacomin & Associates*
1015 Old Front Road
Kingston, ON K7M 4M2
(613) 767-6482 (home office)
iPhone (Worldwide): (612) 222-0038

EDUCATION

BSc (Honours)	Chemical Engineering	Queen's University, Kingston, CANADA (1981)
MSc	Chemical Engineering	Queen's University, Kingston, CANADA (1983)
PhD	Chemical Engineering	McGill University, Montréal, CANADA (1987)

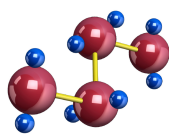
EXPERIENCE

2021-28 Renewal	NSERC Tier 1 Canada Research Chair in Physics of Fluids	Natural Sciences and Engineering Research Council of Canada (NSERC), <i>Canada Research Chairs Program</i> , Government of Canada, Ottawa, CANADA
2020-now Winter 2020	Adjunct Professor Visiting Professor	University of Nevada, Mechanical Engineering Department, Reno, NV University of Nevada, Mechanical Engineering Department, Reno, NV
2019-now	Full Professor <i>with tenure</i>	<i>Queen's University at Kingston</i> , Physics, Engineering Physics and Astronomy Department, Kingston, CANADA
2019-now	Adjunct Professor	State Key Laboratory for Turbulence & Complex Systems (湍流与复杂系



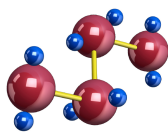
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		统国家重点实验室), Peking University (北京大学), Beijing, CHINA Canadian Society of Rheology / Société Canadienne de Rhéologie
2012-19	President / Président	
2016-now	Editor-in-Chief (sole)	<i>Physics of Fluids</i> , AIP Publishing, Melville, NY (nonprofit journal published by nonprofit publisher)
2014-21	NSERC Tier 1 Canada Research Chair in Rheology	Natural Sciences and Engineering Research Council of Canada (NSERC), <i>Canada Research Chairs Program</i> , Government of Canada, Ottawa, CANADA
2014-now	Full Professor with tenure	<i>Queen's University at Kingston</i> , Mechanical and Materials Engineering Department, Kingston, CANADA
2013-now	Full Professor with tenure	<i>Queen's University at Kingston</i> , Chemical Engineering Department, Kingston, CANADA
2013-now	Full Professor with tenure	<i>Queen's University at Kingston</i> , Engineering Chemistry Program, Kingston, CANADA
Summer 2016	Visiting Professor	<i>National Yunlin University of Science & Technology</i> (國立雲林科技大學), Mechanical Engineering Department, TAIWAN
Summer 2015	Visiting Professor	<i>Shandong University</i> (山东大学 - 千佛山), Materials Science and Engineering Department, Mould and Die Engineering Technology Research Center, Jinan (济南), CHINA
Fall 2014	Visiting Professor	<i>Chung Yuan University</i> (中原大學), Mechanical Engineering Department, Chungli, TAIWAN
Summer 2014	Visiting Professor	<i>Karlsruhe Institute of Technology</i> , Institute for Technical Chemistry and Polymer Chemistry (Institut fuer Technische und Polymerchemie), Karlsruhe, GERMANY
2013-15 2013	Past-President Retired Full Professor	The Society of Rheology <i>University of Wisconsin</i> , Mechanical Engineering Department, Madison, WI
Summer 2013	Visiting Professor	<i>Shanghai University-Bao Shan Campus</i> (上海大学宝山校区), Materials Science and Engineering Department, Shanghai, CHINA
Summer 2013	Visiting Professor	<i>National Yunlin University of Science & Technology</i> (國立雲林科技大學), Mechanical Engineering Department, TAIWAN
Winter 2012- 2013	Visiting Professor	<i>National Yunlin University of Science & Technology</i> (國立雲林科技大學), Mechanical Engineering Department, TAIWAN
Summer 2012	Visiting Professor	<i>Chung Yuan University</i> (中原大學), Mechanical Engineering Department, Chungli, TAIWAN
Summer 2012	Visiting Professor	<i>Shandong University</i> (山东大学 - 千佛山), Department of Materials Science and Engineering, Mould and Die Engineering Technology Research Center, Jinan (济南), CHINA
Winter 2011-12	Visiting Professor	<i>National Yunlin University of Science & Technology</i> (國立雲林科技大學), Mechanical Engineering Department, TAIWAN
2011-13	President	The Society of Rheology
Summer 2011	Visiting Professor	<i>University of Crete</i> (Πανεπιστήμιο Κρήτης), Department of Materials Science and Technology, Institute of Electronic Structure and Laser, Foundation for Research and Technology (FORTH), Heraklion, GREECE
Summer 2011	Visiting Professor	<i>Chung Yuan University</i> (中原大學), Mechanical Engineering Department, Chungli, TAIWAN
Winter 2010-11	Visiting Professor	<i>National Yunlin University of Science & Technology</i> (國立雲林科技大學), Mechanical Engineering Department, TAIWAN



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Summer 2010	Visiting Professor	<i>Chung Yuan University (中原大學)</i> , Mechanical Engineering Department, Chungli, TAIWAN
Winter 2009-10	Visiting Professor	<i>National Yunlin University of Science & Technology (國立雲林科技大學)</i> , Mechanical Engineering Department, TAIWAN
2009-now	Honorary Associate Member	University of Wales Institute of Non-Newtonian Fluid Mechanics, Aberystwyth, UNITED KINGDOM
2009-11	Vice President	The Society of Rheology
2008-now	Affiliate Professor	<i>Chung Yuan University (中原大學)</i> , R&D Center for Mold and Molding Technology (模具與成型科技研發中心), Chungli, TAIWAN
Summer 2009	Visiting Professor	<i>Chung Yuan University (中原大學)</i> , Mechanical Engineering Department, Chungli, TAIWAN
Summer 2008	Visiting Professor	<i>Chung Yuan University (中原大學)</i> , Mechanical Engineering Department, Chungli, TAIWAN
Summer 2007	Visiting Professor	<i>Chung Yuan University (中原大學)</i> , Mechanical Engineering Department, Chungli, TAIWAN
1999-2013	Full Professor <i>with tenure</i>	<i>University of Wisconsin</i> , Mechanical Engineering Department, Madison, WI
2006-now	Associate Director	<i>University of Wisconsin</i> , Polymer Engineering Center, Madison, WI
Summer 2006	Visiting Professor	<i>Chung Yuan University (中原大學)</i> , Mechanical Engineering Department, Chungli, TAIWAN
2003-05	Chair, Mechanical Systems Division	<i>University of Wisconsin</i> , Mechanical Engineering Department, Madison, WI
2000-01	Visiting Professor	<i>National University of Singapore (國立新加坡大學)</i> , Chemical and Environmental Engineering Department, SINGAPORE
1996-2013	Chair, <i>Elected</i>	Rheology Research Center, <i>University of Wisconsin</i> , Madison, WI
1996-99	Associate Professor <i>with tenure</i>	<i>University of Wisconsin</i> , Mechanical Engineering Department, Madison, WI
1994-95	Associate Chair, <i>Elected</i>	Rheology Research Center, <i>University of Wisconsin</i> , Madison, WI
1994-95	Assistant Professor	<i>University of Wisconsin</i> , Mechanical Engineering Department, Madison, WI
1993-94	Professeur de l'Académie des Sciences	<i>Paris School of Mines</i> , Materials Processing Centre, Sophia-Antipolis, FRANCE
Summer 1993	Visiting Professor	<i>Swiss Federal Institute of Technology (École Polytechnique Fédérale de Lausanne)</i> , Materials Department, Lausanne, SWITZERLAND
Summer 1992	Visiting Professor	<i>McGill University</i> , Department of Chemical Engineering, Montreal, CANADA
Summer 1990	Visiting Professor	<i>University of Sherbrooke (Université de Sherbrooke)</i> , Chemical Engineering Department, Sherbrooke, CANADA
1988-94	Assistant Professor	<i>Texas A&M University</i> , Mechanical Engineering Department, College Station, TX
1986-88	Visiting Professor	<i>Texas A&M University</i> , Mechanical Engineering Department, College Station, TX
1981-83	Research Scientist	<i>DuPont Canada, Inc.</i> , Research Division, Kingston, CANADA
Summer 1980	Stagiaire, Short Training Program	<i>von Kármán Institute for Fluid Dynamics</i> , Rhode St Genèse, BELGIUM



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RESEARCH INTERESTS

Dynamics of polymeric liquids; plastics and polymer processing; non-Newtonian fluid mechanics; rheometry; nonlinear viscoelasticity; large-amplitude oscillatory shear flow; thermoforming; pipe extrusion; die drool; injection molding; melt index; durometry.

PROFESSIONAL ENGINEERING LICENSURES

(4) Province of Ontario, *Association of Professional Engineers of Ontario (Council of Professional Engineers of Ontario [PEO])*, CANADA, Certificate No. 100200622 (August 2, 2013 - present).

(3) State of Wisconsin, *Department of Safety and Professional Services*, USA, Certificate No. 31292-6 (January 19, 1996 - present).

(2) State of Texas, *Texas Board of Professional Engineers*, USA, Certificate No. 71444 (January 10, 1992 - December 31, 1996).

(1) Province of Québec, *Ordre des Ingénieurs du Québec*, CANADA, Certificate No. 038224 (November 16, 1983 – 2001; May 21, 2013 - 2014).

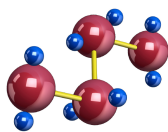


AWARDS

(1) Named *Professeur de l'Académie des Sciences* and *Chaire Elf Aquitaine* 1993-1994, French Academy of Sciences, Institut de France, Paris, FRANCE (February 8, 1994).

Past Recipients 1999-2000: Prof. J. Scales, Colorado School of Mines, Golden, CO. Prof. Paul Mann, University of Texas, Austin, TX. **1998-1999:** Prof. K. Matyjaszewski, Carnegie-Mellon University, Pittsburgh, PA. Prof. S. Chaudhuri, Kansas State University, Manhattan, KS. **1995-1996:** Prof. M. Ghil, University of California at Los Angeles, Los Angeles, CA. Prof. S.R. Vincent, University of British Columbia, CANADA. **1994-1995:** Prof. B. Mandelbrot, IBM, Research Center, Yorktown Heights, NY. Prof. A.L. Crumbliss, Duke University, Chapel Hill, NC. Prof. B. Festoff, University of Kansas, Kansas City, KS. **1993-1994:** Prof. G.E. Birchfield, Northwestern University, Evanston, IL. **1992-1993:** Prof. B. Kribek, Charles University, Prague, CZECHOSLOVAKIA. Prof. S. Penczek, Polish Academy of Sciences, Lodz, POLAND. Prof. W. Reed, Tulane University, New Orleans, LA. Prof. V. Teichberg, Weizman Institute of Science, ISRAEL

(2) 3M Non-Tenured Faculty Award, Minnesota Mining and Manufacturing Company, 3M University Relations Committee, Process Technology Sub-Committee, St. Paul, MN (May,



1995).

(3) Best Paper Award: Giacomini, A.J. and A.J. Hade, “Core Deflection in Injection Molding,” 2005 Cross-Strait Academic Workshop on Advanced Technology of Materials Forming and Die/Mold (AWATMFDM’05), China Association of Machinery Manufacturing Technology, and Chinese Mechanical Engineering Society, Xi’an, CHINA (August 12-15, 2005); Proceedings, *Advanced Forming Technology*, Xi’an Jiaotong University Press, pp. 461-468 (Xi’an, 2005). Best of 90 papers.

(4) Named, Honorary Associate Member, *Institute of Non-Newtonian Fluid Mechanics*, University of Wales, Aberystwyth, UNITED KINGDOM (September 28, 2009).

Current Honorary Associate Members: Prof. David V. Boger, Prof. Roger I. Tanner, Prof. Gareth H. McKinley, Prof. Roland Keunings, Prof. J.R. Anthony Pearson, Prof. Crispulo Gallegos, Prof. Igor Emri, Prof. Mats Stading, Prof. Jae Chun Hyun.

(5) Tier 1 Canada Research Chair in Rheology (Chaire de recherche du Canada en rhéologie), Natural Sciences and Engineering Research Council of Canada (NSERC), held at and nominated by Queen’s University at Kingston, awarded by Canada Research Chairs Program, Government of Canada, Ottawa, CANADA (2014-2021).

(6) Fellow, The Society of Rheology, Class of 2018, 90th Annual Meeting, Houston, TX (October 14-18, 2018).

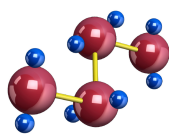
TEACHING EXPERIENCE

^QQueen’s University, ^{UW}University of Wisconsin, ^{A&M}Texas A&M University,
^{NUS}National University of Singapore, ^{NYU}National Yunlin University of Science and Technology,
^{CY}Chung Yuan University, ^{UC}University of Crete, ^{SD}Shandong University

Undergraduate: materials science^{A&M}, fluid dynamics^{UW}.

Undergraduate/Graduate: polymer processing^{UW, A&M, CY, UC, SD}, engineering design with polymers^{UW}, rheology of food and biomaterials^{UW}, transport phenomena^Q.

Graduate: advanced polymer processing^{UW, A&M, NYU}, advanced transport phenomena^{NUS}, macromolecular hydrodynamics^{UW}, rheology^{UW}, introduction to the processing and rheology of polymeric materials^Q, principles and applications of polymer rheology^Q.



INTERNATIONAL TEACHING¹

(16) *Rheology and Polymer Processing*, School of Materials Science and Engineering, Fujian University of Technology (福建工程学院), Fuzhou, CHINA (April 22-26, 2019). 40 masters student registrants.

(15) *Dynamics of Polymeric Liquids*, Universidad de los Andes, Chemical Engineering Department and Mechanical Engineering Department, College of Engineering, Accelerated Graduate Course, Summer School (Escuela de Verano), Bogotá, COLOMBIA (June 22-29, 2017). 34 registrants from Universidad Nacional, Universidad de los Andes, Universidad Tadeo Lozano, Lanzetta Rengifo & CIA Ltda.

(14) *Dynamics of Polymeric Liquids*, University of Crete (Πανεπιστήμιο Κρήτης), Department of Materials Science and Technology, Institute of Electronic Structure and Laser, Foundation for Research and Technology (FORTH), Heraklion, GREECE (September 7-11, 2015).

(13) *Introduction to Polymer Processing*, ME 371, Chung Yuan University (中原大學), Department of Mechanical Engineering, Chungli, TAIWAN (August 2-September 13, 2014).

(12) *Introduction to Polymer Processing* (高分子加工简介), Shanghai University International Courses (上海大学国际化课程), Proceedings, Course Code: 10006002, Shanghai University-Bao Shan Campus (上海大学宝山校区), Shanghai, CHINA (June 25-28, 2013), pp. 133-134.

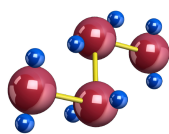


(11) *Transport Phenomena and Plastics Processing*, South China University of Technology (华南理工大学), 2012 National Materials Processing Engineering Graduate Summer School (2012 年材料加工工程全国研究生暑期学校—高分子材料加工新工艺与新装备), Guangzhou (广州), CHINA (November 26, 2012).

(10) *Introduction to Polymer Processing*, ME 371, Chung Yuan University (中原大學), Department of Mechanical Engineering, Chungli, TAIWAN (June 26-July 7, 2012).

(9) *Introduction to Polymer Processing* (聚合物加工基础), Shandong University – Xinglongshan Campus (山东大学-兴隆山校区), Department of Materials Science and Engineering, Mould and Die Engineering Technology Research Center, Jinan (济南), CHINA (May 14-26, 2012).

¹ See also **SHORT COURSES** on p. 85.



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(8) *Introduction to Polymer Processing*, ME1131, Yunlin University of Science and Technology (國立雲林科技大學), Department of Mechanical Engineering, Douliou, TAIWAN (December 22, 2011-January 13, 2012).

(7) *Introduction to Polymer Processing*, MST 456, University of Crete (Πανεπιστήμιο Κρήτης), Department of Materials Science and Technology, Institute of Electronic Structure and Laser, Foundation for Research and Technology (FORTH), Heraklion, GREECE (August 1-5, 2011).

(6) *Introduction to Polymer Processing*, ME 371, Chung Yuan University (中原大學), Department of Mechanical Engineering, Chungli, TAIWAN (July 27-August 8, 2011).

(5) *Introduction to Polymer Processing*, ME 371, Chung Yuan University (中原大學), Department of Mechanical Engineering, Chungli, TAIWAN (July 19-July 30, 2010).

(4) *Introduction to Polymer Processing*, ME1131, Yunlin University of Science and Technology (國立雲林科技大學), Department of Mechanical Engineering, Douliou, TAIWAN (December 22, 2009-January 5, 2010).

(3) *Advanced Transport Phenomena*, CN5401, National University of Singapore (立新加坡大), Department of Chemical & Environmental Engineering, SINGAPORE (Spring Semester, 2000).

(2) *Viscoelastic Fluids*, CN5403, National University of Singapore (立新加坡大), Department of Chemical & Environmental Engineering, SINGAPORE (Fall Semester, 2000).

(1) *Advanced Transport Phenomena*, CN5401, National University of Singapore (立新加坡大), Department of Chemical & Environmental Engineering, SINGAPORE (Fall Semester, 2000).

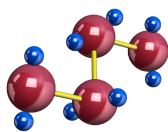
VISITING PROFESSORS OR RESEARCHERS, HOSTED

(11) Natale, G., “Shear Flow Response of Anisotropic Brownian Particles: Dilute to Nematic Regime,” Department of Chemical and Petroleum Engineering, The Schulich School of Engineering, University of Calgary, AB (November 25–30, 2019).

(10) Aumnate, Chuanchom, Assistant Professor, Chulalongkorn University, Metallurgy and Materials Science Research Institute, Bangkok, THAILAND (2019).

(9) Pasquino, R., “Light Scattering in Large-Amplitude Oscillatory Shear Flow,” Department of Chemical, Materials and Industrial Production Engineering, Università Degli Studi di Napoli Federico II, Naples, ITALY (Summer 2018).

(8) Pongthep, P., “Rheology and Polymer Processing,” King Mongkut’s University of Technology North Bangkok, Bangkok, THAILAND (September 2017–April 2018).



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- (7) Wu, Xianghong, “Relating Large-Amplitude Oscillatory Shear Flow to Steady Shear and Small-Amplitude Oscillatory Shear Flow,” *Shandong University* (山东大学 - 千佛山), Materials Science and Engineering Department, Mould and Die Engineering Technology Research Center, Jinan (济南), CHINA (Fall 2017).
- (6) Fried, E., “Marangoni Propulsion on Liquid Surfaces: Experiments and Theory,” Mathematics, Mechanics, and Materials Unit, Okinawa Institute of Science and Technology Graduate University (OIST), Tancha, Onna-son, Okinawa 904-0495, JAPAN (September 2017).
- (5) Abbasi, M., “Foaming and Rheology of Model Linear, Comb and Bottlebrush Polystyrenes,” Karlsruhe Institute of Technology (KIT), Karlsruhe, GERMANY, 20 June 2017.
- (4) Kolutawong, C., “Viscoelastic Effect on Large-Diameter Pipe Extrusion,” King Mongkut’s University of Technology North Bangkok, Bangkok, THAILAND (September 2016).
- (3) Lettinga, P., “Orientation Distribution Function in Large-Amplitude Oscillatory Shear Flow,” Forschungszentrum Juelich, GERMANY (August 15-20, 2015).
- (2) Yessimbekov, Z., “Large-Amplitude Oscillatory Shear Flow of Foodstuffs,” Shakarim State University of Semey, KAZAKHSTAN, February 2015 (Fall 2015).
- (1) Wu, Xianghong, Associate Professor, *Shandong University* (山东大学 - 千佛山), Materials Science and Engineering Department, Mould and Die Engineering Technology Research Center, Jinan (济南), CHINA (2014).

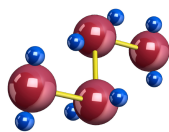
TRAINING

Diploma, *Teaching Macromolecular Chemistry and Engineering in the Undergraduate Curriculum*, Sponsored by the National Science Foundation, Virginia Polytechnic Institute and State University, Blacksburg, VA (July 28-August 9, 1991).

Standard First Aid – Level “B”, Workplace Safety and Insurance Board, Kingston, Canada (April 26, 2016-April 26, 2019).

UNIVERSITY DEGREES CREATED

Master of Engineering (Polymer Engineering and Science), College of Engineering, University of Wisconsin-Madison, Co-Creator: T.A. Osswald, Inaugural Class: Fall 1998, Degree Type: Interdisciplinary.



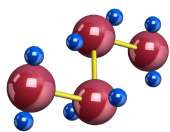
SIGNIFICANT UNIVERSITY SERVICE

- (7) Senator, Queen's University Senate (2018-present).
- (6) Elected, Chair, Renewal, Tenure and Promotion Committee, Chemical Engineering Department, Queen's University (2014-present).
- (5) Appointed, Chair, Student Recruiting Committee, Chemical Engineering Department, Queen's University (2013-present).
- (4) Elected and Reelected, Governing Board, University Club, Queen's University (2014-2016, 2016-2018).
- (3) Appointed, Founding Chair, Membership Committee, University Club, Queen's University (2014-present).
- (2) Elected, Physical Sciences Division Executive Committee, University of Wisconsin, Madison (2008-2011). University level committee advising Deans on tenure and promotion decisions for all faculty in the physical sciences (including the Colleges of Agriculture, Engineering, and of Letters and Sciences).
- (1) Elected, Physical Sciences Division Executive Committee, University of Wisconsin, Madison (2001-2004). University level committee advising Deans on tenure and promotion decisions for all faculty in the physical sciences (including the Colleges of Agriculture, Engineering, and of Letters and Sciences).

PROFESSIONAL SOCIETY MEMBERSHIPS

American Institute of Physics
American Physical Society, Fluid Dynamics Division
Applied Rheology Special Interest Group
Association Francophone pour le Savoir
British Society of Rheology
Canadian Society of Chemical Engineering
Canadian Society of Rheology
Chemical Institute of Canada
Canadian University Teachers Association

European Society of Rheology
Groupe Français de Rhéologie
The International Society of Biorheology
Queen's University Faculty Association
Society of Plastics Engineers
Société Québécoise des Polymères
The Society of Rheology
University Club, Queen's University



STATUS

b. Kingston, CANADA (April 1, 1959)
Married with two children
Dual citizen, CANADA (1959); UNITED STATES (2004)
Entitled to reside permanently and work in the United States and Canada.

Foreign Talents R Visa, certified as High Level Talents (Category A), CHINA, (Expires 2029).

LANGUAGES

English and French spoken and written (fluent).
Mandarin Chinese, spoken and written (beginner).

CONSULTING

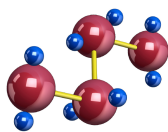
Bristol-Myers Squibb Co. (1996)
Cytec Carbon Fibers (2008-2009)
DLA Piper (2009-2012)
Dow Chemical U.S.A., Texas Polymer Center (1987-1988, 2011-2012)
École Polytechnique Fédérale de Lausanne (1992)
Evert Weathersby Houff (2015-present)
Ferro Corporation (1997)
W.L. Gore & Associates (1997)
Hollingsworth & Vose (2006-2007)
Interlaken Technology Corp. (1991-2003)
John Deere (2009-2010)
Kearny Venture Partners (2014)

Lubriquip, Inc. (2005-2006)
Malvern Instruments, Inc. (2008)
Metzeler Automotive Profile Systems (2005)
Mondelēz International Inc. (2015-2016)
MTS Systems Corp., Materials Test Division (1983-1988)
Nixon & Vanderhye (2009-2013)
Placon Corp. (1996)
Procter & Gamble (2018)
Resmed Ltd. (2009-2013)
Rohm and Haas Company (2006-2011)
Simmons & Simmons (2013-2014)
Tucker Ellis (2012-present)
Tucker, Ellis & West (2007-2012)

EXPERT WITNESS, PATENT LITIGATION

Adduci, Mastriani & Schaumberg (2003)
Alston & Bird (2009-2014)
Baker, Donelson, Bearman, Caldwell & Berkowitz (2007)
Bromberg & Sunstein (2002-2003)
Crowell & Moring (2003-2006)
DLA Piper (2009-2012)
Fish & Richardson (2016-2017)
Foley & Lardner (2003)
Gibson, Dunn & Crutcher (2021-present)
Godfrey & Kahn (2007)
Jenner & Block (1997)
Jones Day (2021-present)

Katz, Teller, Brant & Hild (2008-2010)
Knobbe Martens (2012-2014)
Knobbe, Martens, Olsen & Bear (2006-2008)
Morrison & Foerster (2011-2013)
Sand & Sebolt (2008-2010)
Sidley Austin (2010-2012)
Sidley & Austin (1996-1997)
Sidley, Austin, Brown & Wood (1999-2006)
Shaw Pittman (2003-2004)
Simmons & Simmons (2013-2014)
Smart & Biggar/Fetherstonhaugh (2013-2014)



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St. Onge Steward Johnston & Reens (2010)
Sunstein Kann Murphy & Timbers (2010-
2012, 2019-present)

Susman Godfrey (2015-2016)
Vinson & Elkins (2007-2008)

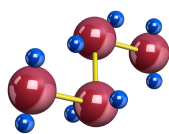
EXPERT WITNESS, PRODUCT LIABILITY

Bassi Edlin Huie & Blum (2018-present)
Day Pitney (2011-2013)
Evert Weathersby Houff (2015-present)
Gordon Rees Scully Mansukhani (2019-
present)

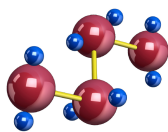
Swartz Campbell (2019)
Tucker Ellis (2012-present)
Tucker, Ellis & West (2007-2012)
Youngkin, Catlin, Bryan & Stacy (1988-
1990)

PROFESSIONAL SOCIETY SERVICE

- (1) Elected, Member-At-Large, Executive Committee, *The Society of Rheology* (1996-1997).
- (2) Chair, Membership Committee, *The Society of Rheology* (1989-1997).
- (3) Faculty Advisor, Student Chapter, *Society of Plastics Engineers*, University of Wisconsin, (1995-2013); SPE 2005 Student Chapter STRETCH (Students Reaching Excellence Through Chapters) Award; SPE 2007 Outstanding Student Chapter Award; SPE 2008 Outstanding Student Chapter Award.
- (4) Faculty Advisor, Student Chapter, *Society of Plastics Engineers*, Texas A&M University, (1988-1994).
- (5) Member, *Ad Hoc* Committee on Constitutional Reform, *The Society of Rheology* (1997-1998).
- (6) Chair, Local Arrangements Committee, *The Society of Rheology*, 71st Annual Meeting, Madison, WI (October 17-21, 1999). [367 registrants from 20 countries].
- (7) Vice-Chair, Technical Program Committee, Applied Rheology Special Interest Group (ARSIG), *Society of Plastics Engineers* (1996-98).
- (8) Associate Editor for Finance, *Journal of Rheology*, The Society of Rheology (1998-2000).
- (9) Chair, Technical Program Committee, Applied Rheology Special Interest Group (ARSIG), *Society of Plastics Engineers*, New York City, NY (1999).
- (10) Elected and Re-elected, **Secretary**, Executive Committee, *The Society of Rheology*, (2000-2001, 2002-2003, 2004-2005, 2006-2007, 2008-2009).
- (11) Associate Editor for Business, *Journal of Rheology* and *Journal of Rheology Online* (2000-2016).
- (12) Member, Society Services Committee, *American Institute of Physics*, College Park, MD (1998-2006).
- (13) Member, Publications Services Subcommittee, *American Institute of Physics*, College Park, MD (1998-2000, 2001-2003, 2004-2006, 2007-2008, 2009-2010).
- (14) Chair, Publications Services Subcommittee of the Publishing Policy Committee, *American Institute of Physics*, College Park, MD (2007-2008, 2009-2010).
- (15) Member, Publishing Policy Committee, *American Institute of Physics*, College Park, MD (2006-2009).



- (16) Chair, Local Arrangements Committee, *The Society of Rheology*, 81st Annual Meeting, Madison, WI (October 11-15, 2009). [470 registrants from 22 countries].
- (17) Member, Essential Information Objects Steering Committee, *American Institute of Physics*, College Park, MD (2006-present).
- (18) Trustee, American Physical Society Insurance Trust (APSIT) Board, *American Institute of Physics*, College Park, MD (2007-2011).
- (19) Co-Editor, Proceedings, *International Congress on Rheology*, Monterrey, CA (August, 2008). See p. 32 below for “**EDITORSHIPS, CONFERENCE PROCEEDINGS**”.
- (20) Elected, **Vice-President**, *The Society of Rheology* (2010-2011).
- (21) Chair, Publishing Policy Committee, *American Institute of Physics*, College Park, MD (2009-2010).
- (22) Chair, Committee on Publishing, *American Institute of Physics*, College Park, MD (2010-2012).
- (20) Chair, Committee of Publishing Partners, *American Institute of Physics*, College Park, MD (2010-2011).
- (23) Chair, Meetings Policy Committee, *The Society of Rheology* (2010-2011).
- (24) Elected, **President**, *The Society of Rheology* (2012-2013).
- (25) Elected Member, Board of Governors, *American Institute of Physics*, College Park, MD (2012-2014).
- (26) Appointed, Executive Committee, Governing Board, *American Institute of Physics*, College Park, MD (2012).
- (27) Elected Member, Executive Committee, Governing Board, *American Institute of Physics*, College Park, MD (2012-2013).
- (28) **Founding Manager**, Board of Managers, *AIP Publishing LLC*, Melville, NY (2013-2015, 2016-2018, 2019-present).
- (29) Chair, Nomination Committee, Board of Managers, *AIP Publishing LLC*, Melville, NY (2013-2015).
- (30) Representative, The Society of Rheology, AIP Member Societies' History Liaison Committee, *American Institute of Physics*, College Park, MD (2014-2018).
- (31) **Past-President**, *The Society of Rheology* (2013-2015).
- (32) Member, AIP Publishing Journal Editor's Committee, *AIP Publishing LLC*, Melville, NY (2013-present).
- (33) Member, AIP Publishing Journal Editor's Planning Committee, *AIP Publishing LLC*, Melville, NY (2013-2018).
- (34) Member, Commercially Sensitive Information (CSI) Compliance Committee, *AIP Publishing LLC*, Melville, NY (2016-2017).
- (35) Member, Electronic Publishing Committee, *The Society of Rheology* (2016-2018).
- (36) Member, Nomination Committee, Board of Managers, *AIP Publishing LLC*, Melville, NY (2016-present).
- (37) Member, Compensation Committee, Board of Managers, *AIP Publishing LLC*, Melville, NY (2016-2018).
- (38) Elected, **President/Président**, Canadian Society of Rheology / Société Canadienne de Rhéologie, (2017-present).



A.J. Giacomini
September 27, 2021

- (39) Elected, **Corporate Secretary**, Board of Managers, *AIP Publishing LLC*, Melville, NY (2018-present).
- (40) **Honorary Conference Chair**, Pacific Rim Conference on Rheology, University of British Columbia, Vancouver, BC, CANADA (August 2-6, 2021).
- (41) Elected, Member, Canadian National Committee, International Union of Theoretical and Applied Mechanics (CNC-IUTAM), (2021-2024).
- (42) Member, Committee on Publication Ethics (COPE), London, UNITED KINGDOM (2016-present).
- (43) Elected, **Representative of the Individual Member (Canada)**, Executive Committee, European Society of Rheology (August 2021-April 2024).

ADVISORY BOARDS

- (1) Technical Advisory Board, Placon Corporation, Madison, WI (2005-2008).
- (2) Voice and Laryngology Advisory Board, University of Wisconsin, Madison (2007-2012).



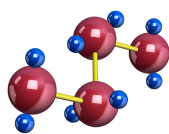
INTERDISCIPLINARY PROGRAMS & CENTERS

- Faculty Member, Polymer Science & Engineering Program, Texas A&M University, College Station (1986-1994).
- Faculty Member, Manufacturing Systems Engineering Program, University of Wisconsin, Madison (1995-2013).
- Faculty Member, Materials Science Program, University of Wisconsin, Madison (1995-2013).
- Faculty Member, Rheology Research Center, University of Wisconsin, Madison (1994-2013).
- Founding Faculty Member, Polymer Engineering Center, University of Wisconsin, Madison (2001-2013).
- Faculty Member, Polymers Research Group, Chemical Engineering Department, Queen's University, Kingston, CANADA (2013-present).

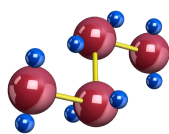
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- (170) El Haddad, K., C. Aumtate, C. Saengow, M.A. Kanso, S.J. Coombs and A.J. Giacomini, "Complex Viscosity of Graphene Suspensions," **33**(9), 093109 (September, 2021), pp. 1-9.
- (169) Saengow, C. and A.J. Giacomini, "Ongoing Relevance of Oldroyd 8-Constant Fluids," *Journal of Non-Newtonian Fluid Mechanics*, xxx (xxxx) 104653 (September 10, 2021).

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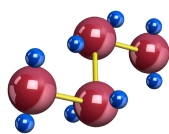


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- (167) Pongthong, P., C. Kolutawong and A.J. Giacomini, “Cooling and Annealing of Plastic Pipe,” *Thermal Science and Engineering Progress*, **25**, 100970 (2021), pp. 1-18.
- (165) Coombs, S.J., R. Pasquino and A.J. Giacomini, “Confinement and Complex Viscosity,” *Physics of Fluids*, **33**(4), Part 1, 053104 (2021), pp. 1-7. Special Collection: Celebration of Robert Byron Bird (1924-2020). Editor’s pick.
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- (162) Aumnate, C., P. Potiyaraj, C. Saengow and A.J. Giacomini, “Reinforcing Polypropylene with Graphene-Polylactic Acid Microcapsules for Fused-Filament Fabrication,” *Materials & Design*, **198**, 109329 (2021), pp. 1-9.
- (161) Kalso, M.A., J.H. Piette, J.A. Hanna and A.J. Giacomini, “Coronavirus Rotational Diffusivity,” *Physics of Fluids*, **32**(11), 113101 (November, 2020), pp. 1-17. Feature article. Cover article. 7,500+ downloads.
- (160) Coombs, S.J., M.A. Kalso, and A.J. Giacomini, “Cole-Cole Relation for Long-Chain Branching from General Rigid Bead-Rod Theory,” *Physics of Fluids*, **32**(9), Part 1, 093106 (September, 2020), pp. 1-15. Editor’s pick.
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- (158) Piette, J.H., N. Moreno, E. Fried and A.J. Giacomini, “The Complex Viscosity of Möbius Macromolecules,” *Physics of Fluids*, **32**(9), Part 1, 093107 (September, 2020), pp. 1-13. Feature article. Cover article.



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- (155) Giacomin, A.J., L.M. Jbara and C. Saengow, “Pattern Method for Higher Harmonics of First Normal Stress Difference from Molecular Orientation in Oscillatory Shear Flow,” *Physics of Fluids*, **32**(3), 031704 (March, 2020), pp. 1-7.
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- (149) Kalso, M.A. and A.J. Giacomin, “Polymer Branching and First Normal Stress Differences in Small-Amplitude Oscillatory Shear Flow,” Established Leaders in Chemical Engineering Special Series, *The Canadian Journal of Chemical Engineering*, **98**(7), 1444-1455 (2020). Erratum: In Eq. (24), “ Ψ ” should be “ Ψ_1 ”. Feature article.
- (148) Saengow, C., A.J. Giacomin and A.S. Dimitrov, “Unidirectional Large-Amplitude Oscillatory Shear Flow of Human Blood,” *Physics of Fluids*, **31**(11), 111903 (November, 2019),

³ 2020 M. Sullivan and Son Ltd. Scholarship, Best Bachelor’s Thesis Award, Engineering Chemistry, Queen’s University (May 19, 2020).



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(147) Gilbert, P.H. and A.J. Giacomin, "Small-Angle Light Scattering in Large-Amplitude Oscillatory Shear," *Physics of Fluids*, **31**(10), 103104 (October, 2019), pp. 1-17. Editor's pick.

(146) Piette, J.H., A.J. Giacomin and M.A. Kanso, "Complex Viscosity of Helical and Doubly Helical Polymeric Liquids from General Rigid Bead-Rod Theory," *Physics of Fluids*, **31**(11), 111904 (November, 2019), pp. 1-16. Feature article. Errata: In the captions to Figures 10 and 12, "prolate" should be "oblate". Right side of Eq. (4) should be $\left[r_{i1}, r_{i2}, r_{i3} \right] - \mathbf{R}$. Before Eq. (35), "Eq. (40) of Ref. 7" should be "Eq. (44) of Ref. 7".

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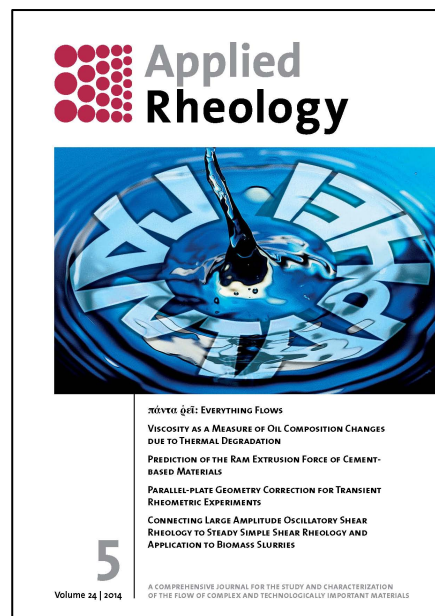
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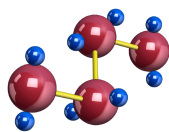
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(141) Saengow, C. and A.J. Giacomin, "Review of Nonlinear Oscillatory Shear Flow Notations and Presentations: Polymeric Liquids," *Current Opinion in Colloid & Interface Science*, **43**, 26-38 (2019). Errata: In Eq. (28), the subscript "nn" should be "n"; after Eq. (28), " $(G''_n, G'_n) = (\eta'_n, \eta''_n)$ " should be " (G''_n, G'_n) to (η'_n, η''_n) ".

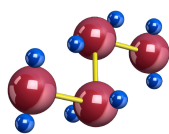
(140) Kanso, M.A., L.M. Jbara, A.J. Giacomin, C. Saengow and P.H. Gilbert, "Order in Oscillatory Shear Flow," *Physics of Fluids*, **31**(3), 033103 (March, 2019), pp. 1-27.

(139) Gilbert, P.H. and A.J. Giacomin, "Transport Phenomena in Bispherical Coordinates," *Physics of Fluids*, **31**(2), 021208 (February, 2019), pp. 1-17.





- (138) Giacomini, A.J., R. Pasquino, C. Saengow and P.H. Gilbert, “Degradation in Parallel-Disk Rheometry,” *Rheologica Acta*, **58**(5), 291–305 (2019).
- (137) Jbara, L.M. and A.J. Giacomini, "Macromolecular Tumbling and Wobbling in Large-Amplitude Oscillatory Shear Flow," *Physics of Fluids*, **31**(2), 021214 (February, 2019), pp. 1-95. Featured, cover article.
- (136) Giacomini, A.J. and P.H. Gilbert, “Degradation in Cone-Plate Rheometry,” *Review of Scientific Instruments*, **89**, 124101 (2018), pp. 1-11.
- (135) Jbara, L.M. and A.J. Giacomini, "Orientation Distribution Function Pattern for Rigid Dumbbell Suspensions in Any Simple Shear Flow," *Macromolecular Theory and Simulations*, **28**(1), 1800046 (January, 2019), pp. 1-16.
- (134) Piette, J.H., L.M. Jbara, C. Saengow and A.J. Giacomini, “Exact Coefficients for Rigid Dumbbell Suspensions for Steady Shear Flow Material Function Expansions,” *Physics of Fluids*, **31**(2), 021212 (February, 2019), pp. 1-15. Erratum: Above Eq. (83), “one other” should be “one other use”.
- (133) Pongthong, P., A. J. Giacomini, C. Saengow, C. Kolutawong, H.-C. Liao and S.-C. Tseng, “Nonlinear Core Deflection in Injection Molding,” *Physics of Fluids*, **30**(5), 053102 (May, 2018), pp. 1-21.
- (132) Xie, Z., X. Wu (吴向红), A.J. Giacomini, G. Zhao and W. Wang, “Suppressing Shrinkage/Warping of PBT Injection Molded Parts with Fillers,” *Polymer Composites*, **39**(7), 2377-2384 (July, 2018).
- (131) Saengow, C. and A.J. Giacomini, “Thermodynamic Instability of Polymeric Liquids in Large-Amplitude Oscillatory Shear Flow from Corotational Maxwell Fluid,” *Fluid Dynamics Research*, **50**(6) 065505 (2018), pp. 1-33.
- (130) Pongthong, P., A.J. Giacomini, C. Saengow and C. Kolutawong, “Series Expansion for Shear Stress in Large-Amplitude Oscillatory Shear Flow from Oldroyd 8-Constant Framework,” *The Canadian Journal of Chemical Engineering*, **97**, 1655-1675 (2019).
- (129) Pongthong, P., C. Saengow, A.J. Giacomini and C. Kolutawong, “Power Series for Shear Stress of Polymeric Liquid in Large-Amplitude Oscillatory Shear Flow,” *Korea-Australia Rheology Journal*, **30**(3), 169-178 (August, 2018).
- (128) Pongthong, P., C. Saengow, A.J. Giacomini, C. Kolutawong, D. Merger, and M. Wilhelm, “Padé Approximant for Normal Stress Differences in Large-Amplitude Oscillatory Shear Flow,” *Physics of Fluids*, **30**(4), 040910 (April, 2018), pp. 1-17.



(127) Giacomini, A.J. and P.H. Gilbert, “Exact-Solution for Cone-Plate Viscometry,” *Journal of Applied Physics*, **122**(17), 175101 (2017), pp. 1-14.

(126) Pongthong, P., C. Kolutawong, C. Saengow and A.J. Giacomini, “Plastic Pipe Solidification in Extrusion,” *Journal of Polymer Engineering*, **38**(6), 591-603 (2018).

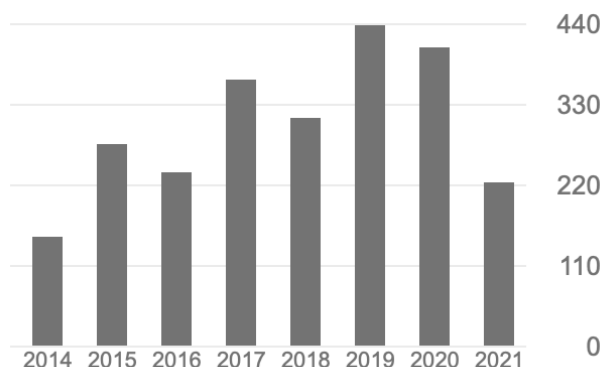
(125) Giacomini, A.J. and C. Saengow, “Molecular Continua for Polymeric Liquids in Large-Amplitude Oscillatory Shear Flow,” *Modern Physics Letters B*, **32**(12/13), 1840036 (2018), pp. 1-5.

CITATIONS IN EACH YEAR (Google Scholar)²

(124) Saengow, C. and A.J. Giacomini, “Fluid Elasticity in Plastic Pipe Extrusion: Loads on Die Barrel,” *International Polymer Processing*, **XXXII**(5), 648–658 (2017).

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h-index	31	22
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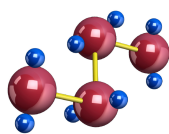
(122) Dessi, C., D. Vlassopoulos, A.J. Giacomini and C. Saengow, “Elastomers in Oscillatory Uniaxial Extension,” *Rheologica Acta*, **56**(12), 955-970 (2017).

(121) Saengow, C., A.J. Giacomini, N. Khalaf and M. Guay, “Simple Accurate Expressions for Shear Stress in Large-Amplitude Oscillatory Shear Flow,” *Nihon Reorogi Gakkaishi* 日本レオロジー学会誌 (*Journal of the Society of Rheology, Japan*), **45**(5), 251-260 (2017).

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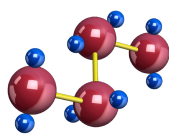
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- (117)⁵ Saengow, C., A.J. Giacomin and C. Kolitawong, “Exact Analytical Solution for Large-Amplitude Oscillatory Shear Flow from Oldroyd 8-Constant Framework: Shear Stress,” *Physics of Fluids*, **29**(4), 043101 (April, 2017), pp. 1-23. Errata: In column 4 of rows 12 and 13 of TABLE IV., $\lambda_2 = \mu_0 = \mu_1$ should be $\mu_1 = -\lambda_1; \lambda_2 = \mu_0$ and $\mu_1 = \lambda_1; \lambda_2 = \mu_0$.
- (116) Gilbert, P.H., C. Saengow and A.J. Giacomin, “Transport Phenomena in Eccentric Cylindrical Coordinates,” *AIChE Journal*, **63**(8), 3563-3581 (August, 2017).
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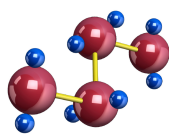
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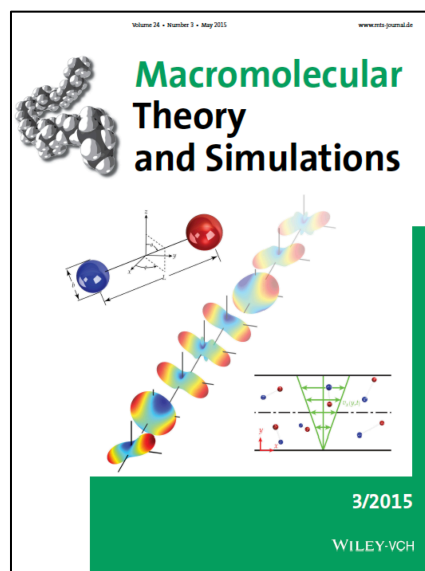
Fig. 9 caption: “ $BR(a, \varphi_s, \beta, F, \psi) = BR(0.0333, 0.0344, \beta, 0.371, \psi)$. Pertains to all worked examples.”

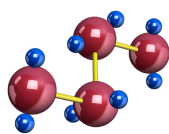
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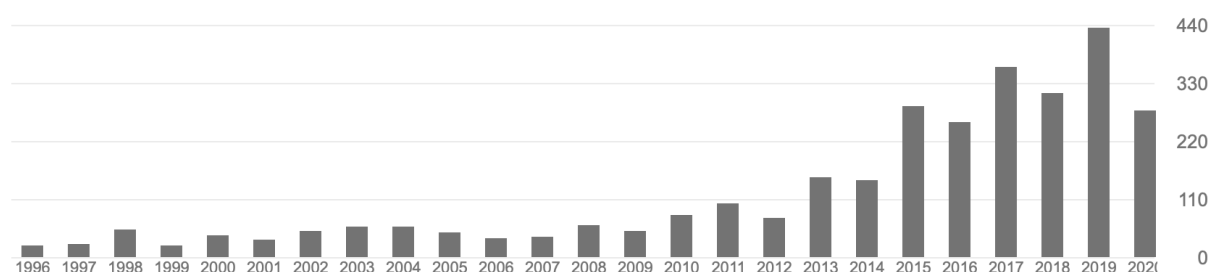
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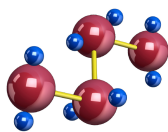
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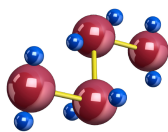
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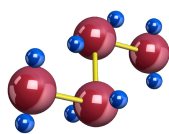
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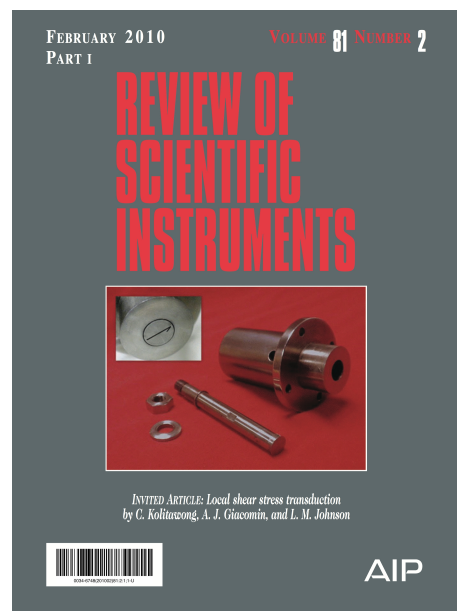
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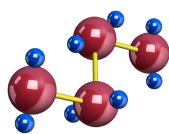
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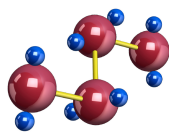
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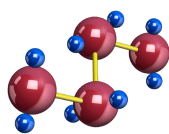
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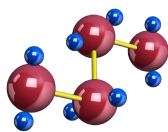
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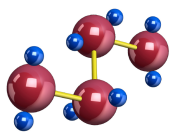
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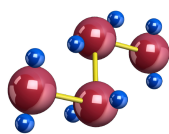
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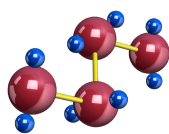


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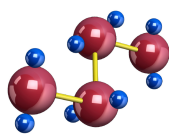
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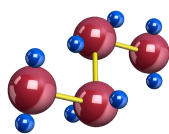
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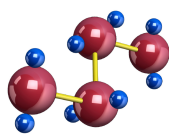
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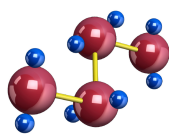
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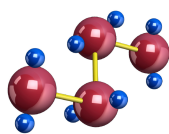
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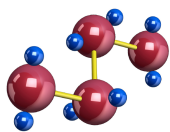
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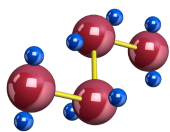
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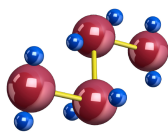
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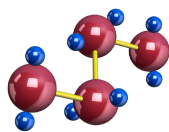
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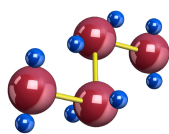
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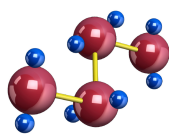
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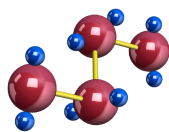
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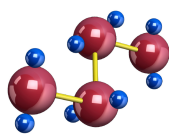
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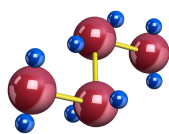
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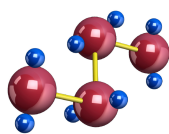
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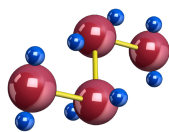
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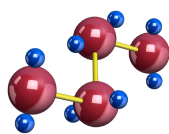
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Eq. (27), " $P_6^4 c_4$ " should be " $\frac{7}{396} P_6^4 c_4$ "; In Eq. (32), " $\frac{1}{63504}$ " should be " $-\frac{1}{63504}$ "; In Eq.

(33), " $-\frac{1}{6\lambda} \frac{1}{432} \frac{3}{49} \frac{20}{7}$ " should be " $+\frac{1}{6\lambda} \frac{1}{432} \frac{3}{49} \frac{20}{7}$ "; In Eq. (35), " $-\frac{1}{74088}$ " should be

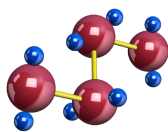
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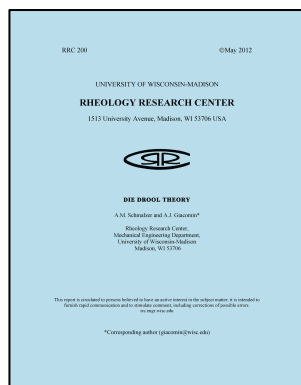
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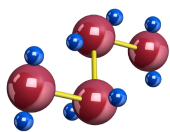
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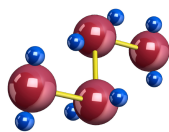
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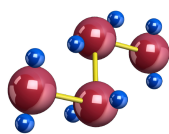


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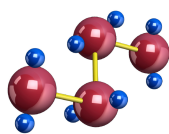
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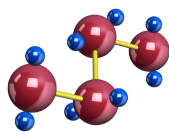
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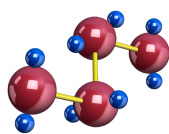
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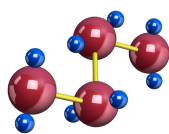
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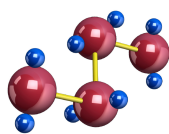
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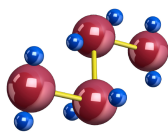
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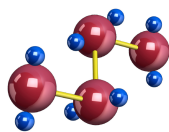
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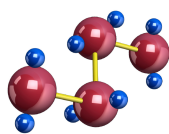
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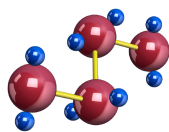
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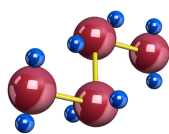


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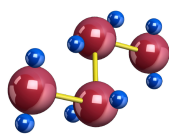
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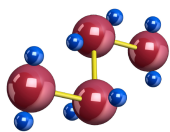
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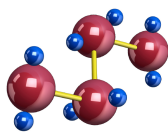
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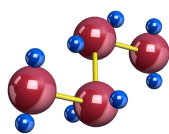
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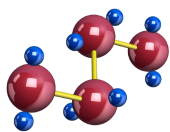


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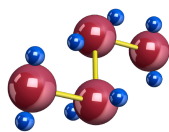


A.J. Giacomini
September 27, 2021

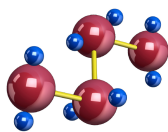
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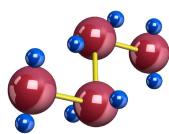
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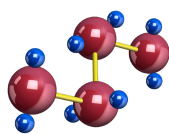
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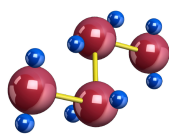
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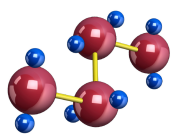
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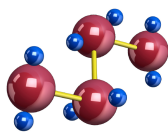
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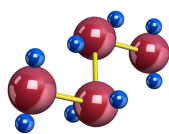
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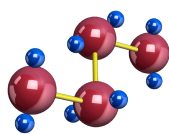
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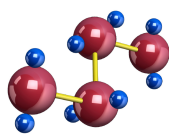
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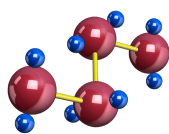
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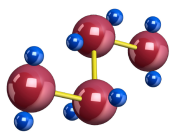
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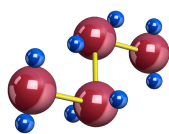
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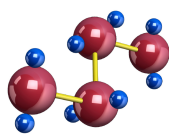
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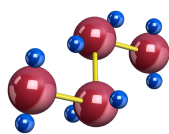
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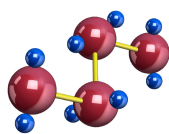
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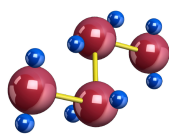
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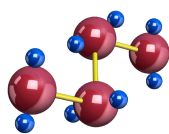
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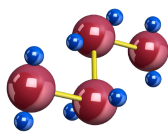
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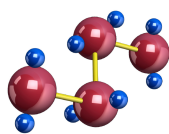
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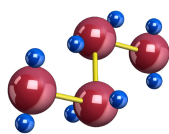
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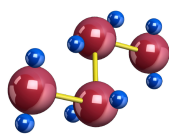
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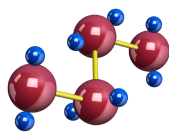
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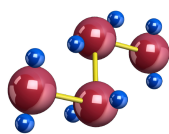
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INTERNATIONAL AGREEMENTS

- (1) "Memorandum of Understanding Between the University of Wisconsin-Madison and Far East College (遠東科技大學)," Signatories: John D. Wiley, Chancellor (Madison, WI) and Yin Zen Wang, President (Tainan, TAIWAN); (August 16, 2005).

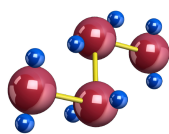
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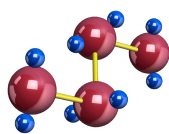
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- (18) Giacomini, A.J., “An Academic Genealogy for Savvas Hatzikiriakos,” Mason Award Symposium, Canadian Society of Rheology, Montréal, QC, CANADA (May 20, 2015).
- (17) Giacomini, A.J., Banquet Address, INNFM Meeting on General Rheology, British Society of Rheology, Ruthin Castle, Denbighshire, Wales, UNITED KINGDOM (March 30-April 1, 2015).
- (16) Giacomini, A.J., Banquet Address, Katholieke Universiteit Leuven Confers Honorary Doctorate of Chemical Engineering on Gerald Gendall Fuller (of Stanford University), Leuven, BELGIUM (June 3, 2014).
- (15) Giacomini, A.J., Ken Walters 80th Birthday Banquet, INNFM Meeting on Rheometry and General Rheology, British Society of Rheology, Lake Vyrnwy, Wales, UNITED KINGDOM (April 15, 2014).
- (14) Giacomini, A.J., Bob Bird’s 90th Birthday Symposium Banquet, Chemical and Biological Engineering Department, University of Wisconsin, Madison, WI (January 30, 2014).
- (13) Giacomini, A.J., “Gerald Gendall Fuller: An Academic Genealogy,” Banquet Address, Complex Fluids and Fluid-Fluid Interfaces Symposium, Stanford University, Stanford, CA (April 15, 2013).
- (12) Giacomini, A.J., Banquet Address, University of Wales Institute for Non-Newtonian Fluid Mechanics, British Society of Rheology, Kavli Royal Society International Centre, Chicheley, UNITED KINGDOM (March 25-27, 2013).
- (11) Giacomini, A.J., “Professor Gareth McKinley: Polymath at 20³,” Banquet Address, University of Wales Institute for Non-Newtonian Fluid Mechanics, 20th Anniversary Conference, Portmeirion Village, Gwynedd, Wales, UNITED KINGDOM (April 18-20, 2011).
- (10) Giacomini, A.J., “An Academic Genealogy of Professor Donald Gene Baird,” Banquet Address, Conference on “Rheometry,” British Society of Rheology, Lake Vyrnwy, Wales, UNITED KINGDOM (March 29-31, 2010).
- (9) Giacomini, A.J., “An Academic Genealogy of Professor Gareth McKinley,” Banquet Address, Institute of Non-Newtonian Fluid Mechanics, British Society of Rheology, *Complex Flows of Complex Fluids*, University of Liverpool, UNITED KINGDOM (March 17-19, 2008).



- (8) Giacomini, A.J., “An Academic Genealogy of Professor David Boger,” Banquet Address, Conference on “Whither Rheology,” British Society of Rheology, Lake Vyrnwy, Wales, UNITED KINGDOM (April 2-4, 2007).
- (7) Giacomini, A.J. and S.J. Muller, “Honoring Robert Calvin Armstrong,” Bingham Banquet Address, 78th Annual Meeting, The Society of Rheology, Portland, Maine (October 10, 2006).
- (6) Giacomini, A.J., “Honoring John Michael,” Dealy Symposium: Molecular Structure and Rheology,” 77th Annual Meeting, The Society of Rheology, Vancouver, CANADA (October 19, 2005).
- (5) Giacomini, A.J., “A Bilingual Academic Genealogy of Pierre Jean Carreau,” Banquet Address, Symposium, Celebrating Professor Pierre Carreau’s 65th Birthday, Fairmount Queen Elizabeth Hotel, Montreal, CANADA (November 5, 2004).
- (4) Giacomini, A.J., “An Academic Genealogy of John Michael Dealy,” Banquet Address, Celebrating Emeritus Professorship Conferred on Professor Dealy, Dept. of Chemical Engineering, McGill University, Montreal, CANADA (June 6, 2004).
- (3) Giacomini, A.J., “An Academic Genealogy of Robert Byron Bird,” Banquet Address, Symposium, Celebrating The Honorary Doctorate Conferred on Professor Bird by Texas A&M University, College Station, TX (February 4, 2000).
- (2) Giacomini, A.J., “An Academic Genealogy of John Michael Dealy,” Bingham Award Banquet Address, Celebrating The Bingham Medal, Awarded to Professor Dealy by The Society of Rheology, 70th Annual Meeting, Monterey, CA (October 6, 1998).
- (1) Giacomini, A.J., “An Academic Genealogy of John Michael Dealy,” Mason Award Banquet Address, Celebrating The Mason Award, Conferred on Professor Dealy by The Canadian Group on Rheology, St-Denis-sur-Richelieu, QC, CANADA (June 6, 1997).

SHORT COURSES

- (11) “Teaching Transport Phenomena and Plastics Processing,” 20 faculty participants, *Shandong University – Qianfoshan Campus* (山东大学 – 千佛山校区), Department of Materials Science and Engineering and Center for Teaching Advancement and Faculty Development, (教师促进发展中心), Special Program for International Experts at Shandong University, Ministry of Education (教育部国家 985, 211 学校特色项目), Jinan (济南), CHINA (December 14-26, 2014).
- (10) “Using Large-Amplitude Oscillatory Shear,” 40 students, in collaboration with Professor R.H. Ewoldt, Mechanical Science and Engineering, University of Illinois at Urbana-Champaign.



A.J. Giacomini
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In conjunction with The Society of Rheology, 85th Annual Meeting, Montréal, Québec, CANADA (October 12-13, 2013).

(9) “Viscosity and other rheological properties: measurement and applications,” in collaboration with Professors M. Carvalho, G.G. Fuller, M. Naccache, P.R. de Souza Mendes, J. Vermant, Mini-Curso (Reologia no processamento de polímeros), Brazilian Society of Rheology (Sociedade Brasileira de Reologia), Departamento Engenharia Mecânica, Pontifícia Universidade Católica do Rio de Janeiro, Gávea, BRAZIL (July 8-9, 2013).

(8) “Rheology and Processing of Polymers, Suspensions and Emulsions,” in collaboration with Prof. G.G. Fuller and Prof. P. Fischer, 4th Annual Meeting, Southern African Society of Rheology, Cape Peninsula University of South Africa, Cape Town, SOUTH AFRICA (September 12, 2012).

(7) “Rheology of Polymers and Polymer Processing,” in collaboration with Prof. G.G. Fuller, 4th Annual Meeting, Southern African Society of Rheology, Plastics Federation of South Africa (Plastics | SA), Corporate Park, Midrand, Johannesburg, SOUTH AFRICA (November 22, 2011).

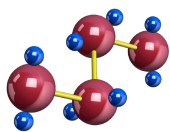
(6) “通过流变技术了解聚合物分子结构和成型特性 (Understanding Polymer Molecular Architecture & Processing Through Rheological Techniques),” 32 students, in collaboration with Mr. Yang, K. and Dr. C.L. Rohn, Holiday Inn – Central Plaza, Beijing, CHINA (April 25, 2008); in Mandarin Chinese.

(5) “通过流变技术了解聚合物分子结构和成型特性 (Understanding Polymer Molecular Architecture & Processing Through Rheological Techniques),” 48 students, in collaboration with Mr. Yang, K. and Dr. C.L. Rohn, China Petroleum & Chemical Corporation SINOPEC (中国石油化工股份有限公司), Beijing Research Institute of Chemical Industry (北京化工研究院), Beijing, CHINA (April 24, 2008); in Mandarin Chinese.

(4) “通过流变技术了解聚合物分子结构和成型特性 (Understanding Polymer Molecular Architecture & Processing Through Rheological Techniques),” 40 students, in collaboration with Mr. Yang, K. and Dr. C.L. Rohn, Shanghai Ramada Inn, Shanghai, CHINA; at the invitation of Malvern Instruments (China), (April 21, 2008); in Mandarin Chinese.

(3) “Beginning Rheology,” 18 students, in collaboration with Professor F.A. Morrison, Chemical Engineering, Michigan Technological University. In conjunction with The Society of Rheology, 79th Annual Meeting, Salt Lake City, UT (October 6-7, 2007).

(2) “Beginning Rheology,” 14 students, in collaboration with Professor F.A. Morrison, Chemical Engineering, Michigan Technological University. In conjunction with The Society of Rheology, 76th Annual Meeting, Lubbock, TX (February 12-13, 2005).

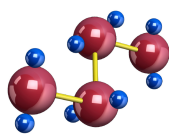


A.J. Giacomini
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- (1) "The Rheology of Thermoplastics," 70 students, in collaboration with Dr. T. Samurkas, Research Engineer, Dow Chemical Company. DOW PLASTICS SHORT COURSE NO. 7436. Texas Polymer Research Center, Freeport, TX (July 23-24, 1991).

OUTREACH COURSES

- (1) *Introduction To Polymer Processing (ME 417)*, Available on Videotape through Engineering Outreach Program, College of Engineering, University of Wisconsin, Madison, WI. Produced in Fall 1998, Spring 2001, Spring 2002, Fall 2004, Fall 2006, Fall 2010.
- (2) *Advanced Polymer Processing (ME 717)*, Available on Videotape through Engineering Outreach Program, College of Engineering, University of Wisconsin, Madison, WI. Produced in Spring 1999, Spring 2004, Spring 2011.
- (3) *Macromolecular Hydrodynamics (ME/CBE 525)*, Available on Videotape through Engineering Outreach Program, College of Engineering, University of Wisconsin, Madison, WI. Produced in Fall 2002.
- (4) *Rheology of Food and Biomaterials (ME/BSE 441)*, Available on Videotape through Engineering Outreach Program, College of Engineering, University of Wisconsin, Madison, WI. Produced with Professor S. Gunasekaran in Spring 2005 (2-credit), Spring 2007 (3-credit).
- (5) *Introduction to Rheology (ME 722)*, Available on Videotape through Engineering Outreach Program, College of Engineering, University of Wisconsin, Madison, WI. Produced in Spring 2009 (3-credit).
- (6) *Fluid Dynamics (ME 363)*, Available on Videotape through Engineering Outreach Program, College of Engineering, University of Wisconsin, Madison, WI. Produced in Spring 2013 (3-credit).

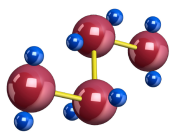


UNIVERSITY RESEARCH PROJECTS

TOTAL: \$7,833,895 (Present Value)

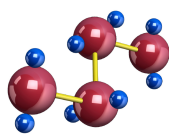
^{A&M}Texas A&M University, ^{UW}University of Wisconsin, ^QQueen's University

- (1)^{A&M} Project Title: "A New Rheometer to Measure Stress-Couples in Molten Plastics"
Agency: University Research Incentive Fund Award, Engineering Program Office, Texas A&M University
Amount Awarded: \$7,185
Date Awarded: January 1, 1987
PI: Giacomini, A.J.
- (2)^{A&M} Project Title: "Bi-Directional Shear Rheometer Development"
Agency: Engineering Excellence Funds, College of Engineering, Texas A&M University
Amount Awarded: \$23,485
Date Awarded: June 11, 1987
PI: Giacomini, A.J.
- (3)^{A&M} Project Title: "Proposal for Purchase of X-Ray Scattering System"
Agency: Permanent University Fund Allocation, Texas A&M University
Amount Awarded: \$260,000
Date Awarded: November 28, 1987
PI: Giacomini, A.J.
Co-PIs: Letton, A. and W.L. Bradley
Responsible for: 33%
- (4)^{A&M} Project Title: "Effect of High Frequency Linear Viscoelasticity on the Switching Time of Liquid Crystals"
Agency: I.B.M., Almaden Research Center, San Jose, CA
Amount Awarded: \$49,300
Date Awarded: January 30, 1988
PI: Giacomini, A.J.
Co-PIs: Wolfenden, A.
Responsible for: 100%



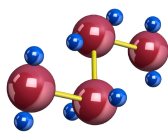
A.J. Giacomini
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- (5)^{A&M} Project Title: “Measuring the Viscoelastic Properties of Molten Teflon at Ultrasonic Frequencies”
Agency: E.I DuPont de Nemours & Co., Inc., Experimental Station, Wilmington, DE
Amount Awarded: \$67,500
Date Awarded: May 23, 1988
PI: Giacomini, A.J.
Co-PIs: Wolfenden, A.
Responsible for: 100%
- (6)^{A&M} Project Title: “The Role of Rheology on Dimensional Tolerances in HDPE Extruded Products,”
Agency: Phillips 66 Company, Houston, TX
Amount Awarded: \$26,000
Date Awarded: June 26, 1989
PI: Giacomini, A.J.
- (7)^{A&M} Project Title: “Collaborative Research on Direct Shear Rheometry of Polyethylene Melts”
Agency: Dow Chemical U.S.A., Freeport, TX
Amount Awarded: \$90,000
Date Awarded: January 16, 1989
PI: Giacomini, A.J.
- (8)^{A&M} Project Title: “Research on Plastic Pipe Extrusion and Bi-Directional Shear Rheometer Development”
Agency: Engineering Excellence Funds, Texas A&M University
Amount Awarded: \$23,000
Date Awarded: January 22, 1989
PI: Giacomini, A.J.
- (9)^{A&M} Project Title: International Scientific Exchange Award
Agency: Natural Sciences and Engineering Research Council of Canada (NSERC)
Amount Awarded: \$5,000
Date Awarded: May 1, 1990
PI: Giacomini, A.J.



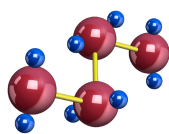
A.J. Giacomini
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- (10)^{A&M} Project Title: “An Evaluation of the Usefulness of Injection Molding Modeling for Kraton Thermoplastics Elastomers”
Agency: Shell Development Co., Houston, TX
Amount Awarded: \$34,333
Date Awarded: November 30, 1990
PI: Giacomini, A.J.
- (11)^{A&M} Project Title: “Supercomputer Simulation of Gravitational Flow and Heat Transfer with Phase Change in Plastic Pipe Extrusion,”
Agency: Cray Research, Inc., Houston, TX
Amount Awarded: \$35,000
Date Awarded: September 4, 1991
PI: Giacomini, A.J.
- (12)^{A&M} Project Title: “Wall Slip in the Extrusion of Molten Plastics”
Agency: Advanced Research Program, Texas Higher Education Coordinating Board, The State of Texas, Austin, TX
Amount Awarded: \$78,489
Date Awarded: June 26, 1991
PI: Giacomini, A.J.
Co-PIs: Slattery, J.C.
Responsible for: 66%
- (13)^{A&M} Project Title: “Limits of Linear Viscoelasticity”
Agency: McGill University, Dept. of Chemical Engineering
Amount Awarded: \$6,000
Date Awarded: May 15, 1992
PI: Giacomini, A.J.
- (14)^{A&M} Project Title: “True Shear Rheometry”
Agency: Ecole Polytechnique Federale de Lausanne, Departement des Materiaux, Laboratoire de Technologie des Composites et Polymeres, Lausanne, SWITZERLAND
Amount Awarded: \$3,500
Date Awarded: November 1, 1992
PI: Giacomini, A.J.
- (15)^{A&M} Project Title: “Oscillatory Shear of Fiber Filled Melts”
Agency: International Research Travel Assistance Grant, Office of International Coordination, Texas A&M University
Amount Awarded: \$950
Date Awarded: December 15, 1992
PI: Giacomini, A.J.



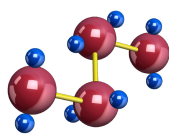
A.J. Giacomini
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- (16) Project Title: “Characterization of Flow Properties of Rubber Compounds Using a Sliding Plate Rheometer”
Agency: Office of Director, Research and Development, HUTCHINSON Corp., Paris, FRANCE
Amount Awarded: \$9,400
Date Awarded: March 31, 1993
PI: Giacomini, A.J.
- (17)^{A&M} Project Title: “The Roles of Nonlinear Viscoelasticity in Blow Molding and of Wall Slip in Extrusion Die Flow Using Finite Element Modeling,”
Agency: French Academy of Sciences
Amount Awarded: \$60,054
Date Awarded: January 14, 1993
PI: Giacomini, A.J.
- (18)^{A&M} Project Title: “An Interdisciplinary Investigation of a Novel Moving Common Line Mechanism for Polymer Melt Fracture”
Agency: Interdisciplinary Research Initiatives, Office of Associate Provost for Research and Graduate Studies, Texas A&M University
Amount Awarded: \$64,346
Date Awarded: March 29, 1993
PI: Giacomini, A.J.
Co-PIs: Slattery, J.C.
Responsible for: 50%
- (18)^{A&M} Project Title: *Professeur de l’Académie des Sciences* held at École des Mines de Paris, Sophia Antipolis Campus, “Entanglement in Polymer Flows”
Agency: Institut de France and Elf Aquitaine
Amount Awarded: \$80,000
Date Awarded: September, 1993
PI: Giacomini, A.J.
Responsible for: 100%
- (19)^{UW} Project Title: Starting Package
Agency: University of Wisconsin
Amount Awarded: \$178,778
Date Awarded: September 1, 1994
PI: Giacomini, A.J.



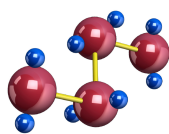
A.J. Giacomini
September 27, 2021

- (20)^{UW} Project Title: “Investigation of Die Drool in Plastics Extrusion”
Agency: The Graduate School, Research Committee,
University of Wisconsin
Amount Awarded: \$15,816
Date Awarded: December 9, 1994
PI: Giacomini, A.J.
- (21)^{UW} Project Title: “Measuring the Dynamic Slip Boundary Condition
for Molten Plastics”
Agency: Industrial and Economic Development Research
Program Award, University-Industry Relations (UIR),
University of Wisconsin-Madison
Amount Awarded: \$114,099
Date Awarded: February 28, 1995
PI: Giacomini, A.J.
Co-PI: Graham, M.D.
Responsible for: 50%
- (22)^{UW} Project Title: “Nomination for University Grant”
Agency: E.I Du Pont de Nemours and Co., Polymer Products,
Central Research and Development, Wilmington, DE
Amount Awarded: \$15,000
Date Awarded: February, 1995
PI: Giacomini, A.J.
- (23)^{UW} Project Title: “Exponential Shear Behavior of Acrylic Hot-Melt Adhesives”
Agency: 3M Non-Tenured Faculty Award, 3M University Relations
Committee, Process Technology Sub-Committee, St. Paul, MN
Amount Awarded: \$45,000
Date Awarded: February, 1995
PI: Giacomini, A.J.
- (24)^{UW} Project Title: “Nomination for University Grant”
Agency: E.I Du Pont de Nemours and Co., Polymer Products,
Central Research and Development, Wilmington, DE
Amount Awarded: \$15,000
Date Awarded: February, 1996
PI: Giacomini, A.J.

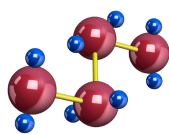


A.J. Giacomini
September 27, 2021

- (25)^{UW} Project Title: “Characterization of Melt and Flow Properties of Cheeses”
Agency: Center for Dairy Research, University of Wisconsin
Amount Awarded: \$154,877
Date Awarded: June 26, 1996
PI: Gunasekaran, S. and A. J. Giacomini
Responsible for: 50%
- (26)^{UW} Project Title: “Nomination for University Grant”
Agency: E.I Du Pont de Nemours and Co., Polymer Products,
Central Research and Development, Wilmington, DE
Amount Awarded: \$15,000
Date Awarded: February, 1997
PI: Giacomini, A.J.
- (27)^{UW} Project Title: “Die Lip Build-Up in Filled Extruded Plastic Films”
Agency: Kimberly-Clark, Roswell, GA
Amount Awarded: \$90,540
Date Awarded: February 9, 1997
PI: Giacomini, A.J. and J.J. de Pablo
Responsible for: 50%
- (28)^{UW} Project Title: “Reducing Die Lines in Extruded Plastic Films”
Agency: The 3M Company, St. Paul, MN
Amount Awarded: \$106,776
Date Awarded: February 28, 1997
PI: Giacomini, A.J. and J.J. de Pablo
Responsible for: 50%
- (29)^{UW} Project Title: “Evaluating Nonlinear Viscoelasticity of Wheat Flour Dough by
Large Amplitude Oscillatory Shear Tests”
Agency: United States Department of Agriculture
Amount Awarded: \$126,000
Date Awarded: June 3, 1997
PI: Giacomini, A.J. and S. Gunasekaran
Responsible for: 50%
- (30)^{UW} Project Title: “Large Amplitude Nonlinear Viscoelastic Behavior of Mozzarella
Cheese During Twin-Screw Extrusion”
Agency: Dairy Management Inc.
Amount Awarded: \$94,555
Date Awarded: January 1, 1998
PI: Gunasekaran, S., A.J. Giacomini, T.A. Osswald and M.E. Johnson
Responsible for: 50%

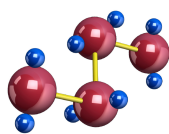


- (31)^{UW} Project Title: “Nomination for University Grant”
Agency: E.I Du Pont de Nemours and Co., Polymer Products,
Central Research and Development, Wilmington, DE
Amount Awarded: \$15,000
Date Awarded: February, 1998
PI: Giacomini, A.J.
- (32)^{UW} Project Title: “Nomination for University Grant”
Agency: E.I Du Pont de Nemours and Co., Polymer Products,
Central Research and Development, Wilmington, DE
Amount Awarded: \$15,000
Date Awarded: February, 1999
PI: Giacomini, A.J.
- (33)^{UW} Project Title: “Research Instruments for Material Characterization, In-Line
Monitoring, and Process Development in Polymer Processing”
Agency: NSF Major Research Instrumentation (MRI) Grant
Amount Awarded: \$263,365.
Date Awarded: 2001
Co-PI: Giacomini, A.J.
Responsible for: 25%
- (34)^{UW} Project Title: “Designing Dies to Suppress Die-Lip Buildup”
Agency: Kimberly-Clark, Roswell, GA
Amount Awarded: \$45,000.
Date Awarded: March, 2000
PI: Giacomini, A.J.
Responsible for: 100%
- (35)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Placon Corporation
Amount Awarded: \$25,000.
Date Awarded: 2003
PI: Giacomini, A.J.
Responsible for: 100%
- (36)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Placon Corporation
Amount Awarded: \$25,000.
Date Awarded: 2004
PI: Giacomini, A.J.
Responsible for: 100%

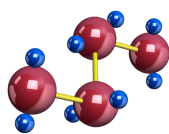


A.J. Giacomini
September 27, 2021

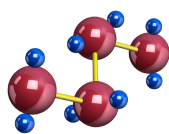
- (37)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Placon Corporation
Amount Awarded: \$25,000.
Date Awarded: 2005
PI: Giacomini, A.J.
Responsible for: 100%
- (38)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Placon Corporation
Amount Awarded: \$25,000.
Date Awarded: 2006
PI: Giacomini, A.J.
Responsible for: 100%
- (39)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Plastic Ingenuity Inc.
Amount Awarded: \$100,000.
Date Awarded: 2006
PI: Giacomini, A.J.
Responsible for: 100%
- (40)^{UW} Project Title: “Visiting Professorship, *Chung Yuan University* (中原大學):
Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$12,000.
Date Awarded: 2006
PI: Giacomini, A.J.
Responsible for: 100%
- (41)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Placon Corporation
Amount Awarded: \$25,000.
Date Awarded: 2007
PI: Giacomini, A.J.
Responsible for: 100%
- (42)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Plastic Ingenuity Inc.
Amount Awarded: \$50,000.
Date Awarded: 2007
PI: Giacomini, A.J.
Responsible for: 100%



- (43)^{UW} Project Title: “Rheology and Film Blowing”
Agency: Bemis
Amount Awarded: \$25,000.
Date Awarded: 2007
PI: Giacomini, A.J.
Responsible for: 100%
- (44)^{UW} Project Title: “Rheometer Control System”
Agency: State of Wisconsin
Amount Awarded: \$60,000.
Date Awarded: 2007
PI: Giacomini, A.J.
Responsible for: 100%
- (45)^{UW} Project Title: “Visiting Professorship, *Chung Yuan University* (中原大學):
Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$12,000.
Date Awarded: 2007
PI: Giacomini, A.J.
Responsible for: 100%
- (46)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Placon Corporation
Amount Awarded: \$30,000.
Date Awarded: 2008
PI: Giacomini, A.J.
Responsible for: 100%
- (47)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Plastic Ingenuity Inc.
Amount Awarded: \$60,000.
Date Awarded: 2008
PI: Giacomini, A.J.
Responsible for: 100%
- (48)^{UW} Project Title: “Rheology and Film Blowing”
Agency: Bemis Corp.
Amount Awarded: \$30,000.
Date Awarded: 2008
PI: Giacomini, A.J.
Responsible for: 100%

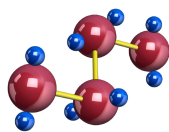


- (49)^{UW} Project Title: “Visiting Professorship, *Chung Yuan University* (中原大學): Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$12,000.
Date Awarded: 2009
PI: Giacomini, A.J.
Responsible for: 100%
- (50)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Plastic Ingenuity Inc.
Amount Awarded: \$30,000.
Date Awarded: 2009
PI: Giacomini, A.J.
Responsible for: 100%
- (51)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Plastic Ingenuity Inc.
Amount Awarded: \$30,000.
Date Awarded: 2010
PI: Giacomini, A.J.
Responsible for: 100%
- (52)^{UW} Project Title: “Visiting Professorship, *National Yunlin University of Science & Technology* (國立雲林科技大學): Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$12,000.
Date Awarded: 2010
PI: Giacomini, A.J.
Responsible for: 100%
- (53)^{UW} Project Title: “Rheology and Slip in Ceramic Pastes”
Agency: Strategic Initiative Grant, Dow Chemical Company
Amount Awarded: \$198,000.
Date Awarded: 2010
PI: Giacomini, A.J.
Responsible for: 100%

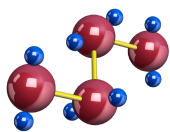


A.J. Giacomini
September 27, 2021

- (54)^{UW} Project Title: “Visiting Professorship, *Chung Yuan University* (中原大學): Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$15,000.
Date Awarded: 2010
PI: Giacomini, A.J.
Responsible for: 100%
- (55)^{UW} Project Title: “Rheology and Thermoforming”
Agency: TriEnda Corporation
Amount Awarded: \$63,000.
Date Awarded: 2010
PI: Giacomini, A.J.
Responsible for: 100%
- (56)^{UW} Project Title: “Rheology and Thermoforming”
Agency: TriEnda Corporation
Amount Awarded: \$31,500.
Date Awarded: 2011
PI: Giacomini, A.J.
Responsible for: 100%
- (57)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Clearlam Corporation
Amount Awarded: \$35,000.
Date Awarded: 2011
PI: Giacomini, A.J.
Responsible for: 100%
- (58)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Sub-Zero Corporation
Amount Awarded: \$35,000.
Date Awarded: 2009
PI: Giacomini, A.J.
Responsible for: 100%
- (59)^{UW} Project Title: “Visiting Professorship, *National Yunlin University of Science & Technology* (國立雲林科技大學): Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$12,000.
Date Awarded: 2011
PI: Giacomini, A.J.
Responsible for: 100%

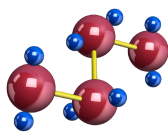


- (60)^{UW} Project Title: “Visiting Professorship, *Chung Yuan University* (中原大學): Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$15,000.
Date Awarded: 2011
PI: Giacomini, A.J.
Responsible for: 100%
- (61)^{UW} Project Title: “Slip in Extrusion”
Agency: Extrusion Dies Inc.
Amount Awarded: \$35,000.
Date Awarded: 2011
PI: Giacomini, A.J.
Responsible for: 100%
- (62)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Sub-Zero Corporation
Amount Awarded: \$35,000.
Date Awarded: 2010
PI: Giacomini, A.J.
Responsible for: 100%
- (63)^{UW} Project Title: “Visiting Professorship, *National Yunlin University of Science & Technology* (國立雲林科技大學): Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$12,000.
Date Awarded: 2012
PI: Giacomini, A.J.
Responsible for: 100%
- (64)^{UW} Project Title: “Visiting Professorship, *Chung Yuan University* (中原大學): Rheology and Plastics Processing”
Agency: Government of Taiwan
Amount Awarded: \$15,000.
Date Awarded: 2012
PI: Giacomini, A.J.
Responsible for: 100%



A.J. Giacomini
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- (65)^{UW} Project Title: “Die Drool in Plastics Extrusion”
Agency: Strategic Initiative Grant, Dow Chemical Company
Amount Awarded: \$555,000.
Date Awarded: 2012
PI: Giacomini, A.J.
Responsible for: 100%
- (66)^{UW} Project Title: “Slip in Extrusion”
Agency: Extrudion Dies Inc.
Amount Awarded: \$36,000.
Date Awarded: 2012
PI: Giacomini, A.J.
Responsible for: 100%
- (67)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Sub-Zero Corporation
Amount Awarded: \$35,000.
Date Awarded: 2011
PI: Giacomini, A.J.
Responsible for: 100%
- (68)^{UW} Project Title: “Rheology and Thermoforming”
Agency: Sub-Zero Corporation
Amount Awarded: \$36,000.
Date Awarded: 2012
PI: Giacomini, A.J.
Responsible for: 100%
- (69)^{UW} Project Title: “Viscoelastic effects of polymer melt axially flow between eccentric cylinders,” (อิทธิพลเหนี่ยวนำของพอลิเมอร์หลอมเหลวที่มีต่อการไหลระหว่างท่อที่เยื้องศูนย์)
Agency: The Royal Golden Jubilee Ph. D. Program, The Thailand Research Fund (โครงการปริญญาเอกกาญจนาภิเษก กองทุนสนับสนุนการวิจัย)
Amount Awarded: \$75,509.
Date Awarded: June, 2012
Co-PIs: Kolutawong, C., Giacomini, A.J.
Responsible for: 50%
- (70)^{UW} Project Title: “Research and development of precision injection compression molding technology for super thin parts with 3D micro features,” (具三維微特徵超薄元件精密射出壓縮成型特性與技術研發)
Agency: National Science Council (行政院國家科學委員會), Taiwan



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Amount Awarded: \$50,000.
Date Awarded: 2012
Co-PIs: Tseng, S.-C. (曹世昌), Giacomini, A.J.
Responsible for: 50%

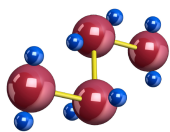
(71)^Q Project Title: Research Initiation Grant
Agency: Queen's University
Amount Awarded: \$100,000.
Date Awarded: 2013-2014
Co-PIs: Giacomini, A.J.
Responsible for: 100%

(72)^Q Project Title: Faculty Research Exchange 2014-2015: Large-Amplitude Oscillatory Shear Flow of Polymeric Liquids
Agency: Ontario/Baden-Württemberg Exchange Program
Amount Awarded: \$8,750.
Date Awarded: February 5, 2014
Co-PIs: Giacomini, A.J.
Responsible for: 100%

(73)^Q Project Title: "Experimental Techniques to Determine the Rheological Properties of Polymeric Liquids"
Agency: John R. Evans Leaders Fund Project #32844, Canadian Foundation of Innovation (CFI), Government of Canada
Value Awarded: \$200,000
Date Awarded: 2014-2020
PI: Giacomini, A.J.

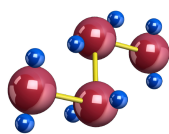
(74)^Q Project Title: "Experimental Techniques to Determine the Rheological Properties of Polymeric Liquids"
Agency: Ontario Research Fund (ORF) – Small Infrastructure Fund, Ministry of Research and Innovation (MRI), Government of Ontario
Value Awarded: \$200,000
Date Awarded: 2015
PI: Giacomini, A.J.

(75)^Q Project Title: "Experimental Techniques to Determine the Rheological Properties of Polymeric Liquids"
Agency: Infrastructure Operating Fund (IOF), Ministry of Research and Innovation (MRI), Government of Ontario
Value Awarded: \$64,426
Date Awarded: 2016-2017
PI: Giacomini, A.J.

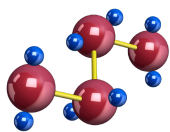


A.J. Giacomini
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- (76)^Q Project Title: "NSERC Canada Research Chair in Rheology"
Agency: Canada Research Chairs Program (CRC), Government of Canada
Value Awarded: \$1,400,000
Date Awarded: 2014-2020
PI: Giacomini, A.J.
- (77)^Q Project Title: "Normal stress differences in large-amplitude oscillatory shear flow for dilute rigid dumbbell suspensions"
Agency: Faculty Travel Grant, H.G. Bertram Trust, Queen's University
Value Awarded: \$1,000
Date Awarded: 2014
PI: Giacomini, A.J.
- (78)^Q Project Title: "Die Drool and Polymer Degradation"
Agency: Faculty Travel Grant, H.G. Bertram Trust, Queen's University
Value Awarded: \$1,000
Date Awarded: 2015
PI: Giacomini, A.J.
- (79)^Q Project Title: "Large-Amplitude Oscillatory Shear (LAOS) of Polymeric Liquids"
Agency: Discovery Grant Program, Natural Sciences and Engineering Research Council (NSERC), Government of Canada
Value Awarded: \$300,000
Date Awarded: 2016-2020
PI: Giacomini, A.J.
- (80)^Q Project Title: "Molecular Orientation in Large-Amplitude Oscillatory Shear (LAOS) of Complex Fluids"
Agency: Vanier Canada Graduate Scholarship Program, Natural Sciences and Engineering Research Council (NSERC), Government of Canada
Value Awarded: \$150,000
Date Awarded: 2016-2019
Co-PI: Giacomini, A.J. (with P.H. Gilbert)
- (81)^Q Project Title: "Macromolecular Architecture and Complex Viscosity"
Agency: Vanier Canada Graduate Scholarship Program, Natural Sciences and Engineering Research Council (NSERC), Government of Canada
Value Awarded: \$150,000
Date Awarded: 2020-2023
Co-PI: Giacomini, A.J. (with M. Kanso)



- (82)^Q Project Title: “Principal's Development Fund Visiting Scholar,”
Agency: Principal's Development Fund, Queen's University
Value Awarded: \$9,030
Date Awarded: 2018
Co-PI: Giacomini, A.J. (with Professor R. Pasquino)
- (83)^Q Project Title: “International Tuition Award”
Agency: School of Graduate Studies, Queen's University
Value Awarded: \$18,000
Date Awarded: 2016-2019
Co-PI: Giacomini, A.J. (with P.H. Gilbert)
- (84)^Q Project Title: “International Tuition Award”
Agency: School of Graduate Studies, Queen's University
Value Awarded: \$18,000
Date Awarded: 2019-2023
Co-PI: Giacomini, A.J. (with M. Kanso)
- (85)^Q Project Title: “Charles Allan Thompson Award”
Agency: School of Graduate Studies, Queen's University, Queen's University
Value Awarded: \$4,500
Date Awarded: 2018
Co-PI: Giacomini, A.J. (with J.H. Piette)
- (86)^Q Project Title: “Undergraduate Student Research Award (USRA)”
Agency: Natural Sciences and Engineering Research Council (NSERC),
Government of Canada
Value Awarded: \$4,500
Date Awarded: 2019
Co-PI: Giacomini, A.J. (with J.H. Piette)
- (87)^Q Project Title: “Undergraduate Student Research Award (USRA)”
Agency: Natural Sciences and Engineering Research Council (NSERC),
Government of Canada
Value Awarded: \$4,500
Date Awarded: 2020
Co-PI: Giacomini, A.J. (with J.H. Piette)



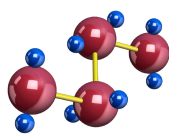
A.J. Giacomini
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- (88)^Q Project Title: "Virus Rotational Diffusivity and Complex Viscosity: Tobacco Mosaic, Gemini, Adeno and Corona"
Agency: Mitacs (The Mathematics of Information Technology and Complex Systems) Research Training Award, Canada
Value Awarded: \$6,000
Date Awarded: 2021
Co-PI: Giacomini, A.J. (with M. Kanso)
- (89)^Q Project Title: "NSERC Canada Research Chair in Rheology"
Agency: Canada Research Chairs Program (CRC), Government of Canada
Value Awarded: \$1,400,000
Date Awarded: 2021-2027
PI: Giacomini, A.J.

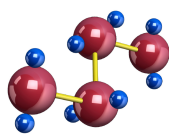
EQUIPMENT GRANTS

TOTAL: \$1,948,227 (Present Value)

- (1)^{A&M} Project Title: "Donation of Weissenberg Rheogoniometer"
Agency: I.B.M., Almaden Research Laboratory, San Jose, CA
Value Awarded: \$20,000
Date Awarded: November 27, 1987
PI: Giacomini, A.J.
- (2)^{A&M} Project Title: "Modeling Pipe Extrusion and Predicting Nonlinear Viscoelasticity With a VAX Station 2000"
Agency: College of Engineering, Texas A&M University
Value Awarded: \$4,920
Date Awarded: January, 1989
PI: Giacomini, A.J.
Co-PI: Westover, L.
Responsible for: 100%
- (3)^{A&M} Project Title: "Software Development for Closed-Loop Crystal Driver"
Agency: Solid State Equipment, Ltd., Lower Hutt, New Zealand
Value Awarded: \$20,000
Date Awarded: June 8, 1989
PI: Giacomini, A.J.
Co-PI: Wolfenden, A.
Responsible for: 50%

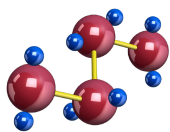


- (4)^{A&M} Project Title: “MTS 831 Elastomer Test Frame and Direct Shear Rheometer”
Agency: MTS Systems Corporation
Value Awarded: \$185,000
Date Awarded: November 1, 1989
PI: Giacomini, A.J.
- (5)^{UW} Project Title: “True Shear Rheometer Control System”
Agency: Interlaken Technology Corporation, Eden Prairie, MN
Value Awarded: \$30,000
Date Awarded: September 3, 1992
PI: Giacomini, A.J.
- (6)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$28,000
Date Awarded: 2002
PI: Giacomini, A.J.
- (7)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$28,000
Date Awarded: 2003
PI: Giacomini, A.J.
- (8)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$28,000
Date Awarded: 2004
PI: Giacomini, A.J.
- (9)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$28,000
Date Awarded: 2005
PI: Giacomini, A.J.
- (10)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$28,000
Date Awarded: 2006
PI: Giacomini, A.J.



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- (11)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$56,000
Date Awarded: 2007
PI: Giacomini, A.J.
- (12)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$112,000
Date Awarded: 2008
PI: Giacomini, A.J.
- (13)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$112,000
Date Awarded: 2009
PI: Giacomini, A.J.
- (14)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$112,000
Date Awarded: 2010
PI: Giacomini, A.J.
- (15)^{UW} Project Title: “MOLDEX 3D Software License for Modeling Injection Molding”
Agency: Hsinchu, TAIWAN
Value Awarded: \$30,000
Date Awarded: 2010
PI: Giacomini, A.J.
- (16)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
Agency: Fluent, Inc., NH
Value Awarded: \$112,000
Date Awarded: 2011
PI: Giacomini, A.J.
- (17)^{UW} Project Title: “MOLDEX 3D Software License for Modeling Injection Molding”
Agency: Hsinchu, TAIWAN
Value Awarded: \$30,000
Date Awarded: 2011
PI: Giacomini, A.J.



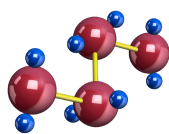
A.J. Giacomini
September 27, 2021

- (18)^{UW} Project Title: “Polyflow Software License for Modeling Polymer Processing”
 Agency: Fluent, Inc., NH
 Value Awarded: \$112,000
 Date Awarded: 2012
 PI: Giacomini, A.J.
- (19)^{UW} Project Title: “MOLDEX 3D Software License for Modeling Injection Molding”
 Agency: Hsinchu, TAIWAN
 Value Awarded: \$30,000
 Date Awarded: 2012
 PI: Giacomini, A.J.

RRC SUSTAINING SPONSORSHIP

TOTAL: \$404,078 (Present Value)

- | | |
|--|---|
| (1) ^{UW} Agency: E.I. du Pont, DE
Value Awarded: \$15,000
Date Awarded: 1995
PI: Giacomini, A.J. | (6) ^{UW} Agency: 3M, MN
Value Awarded: \$12,000
Date Awarded: 2000
PI: Giacomini, A.J. |
| (2) ^{UW} Agency: E.I. du Pont, DE
Value Awarded: \$15,000
Date Awarded: 1996
PI: Giacomini, A.J. | (7) ^{UW} Agency: 3M, MN
Value Awarded: \$12,000
Date Awarded: 2001
PI: Giacomini, A.J. |
| (3) ^{UW} Agency: 3M, MN
Value Awarded: \$12,000
Date Awarded: 1997
PI: Giacomini, A.J. | (8) ^{UW} Agency: 3M, MN
Value Awarded: \$12,000
Date Awarded: 2002
PI: Giacomini, A.J. |
| (4) ^{UW} Agency: 3M, MN
Value Awarded: \$12,000
Date Awarded: 1998
PI: Giacomini, A.J. | (9) ^{UW} Agency: Placon, Inc., WI
Value Awarded: \$14,000
Date Awarded: 2003
PI: Giacomini, A.J. |
| (5) ^{UW} Agency: 3M, MN
Value Awarded: \$12,000
Date Awarded: 1999
PI: Giacomini, A.J. | (10) ^{UW} Agency: Placon, Inc., WI
Value Awarded: \$14,000
Date Awarded: 2004
PI: Giacomini, A.J. |



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(11) ^{UW} Agency:	Placon, Inc., WI	(16) ^{UW} Agency:	Placon, Inc., WI
Value Awarded:	\$14,000	Value Awarded:	\$15,000
Date Awarded:	2005	Date Awarded:	2009
PI:	Giacomini, A.J.	PI:	Giacomini, A.J.
(12) ^{UW} Agency:	Placon, Inc., WI	(17) ^{UW} Agency:	Placon, Inc., WI
Value Awarded:	\$14,000	Value Awarded:	\$15,000
Date Awarded:	2006	Date Awarded:	2010
PI:	Giacomini, A.J.	PI:	Giacomini, A.J.
(13) ^{UW} Agency:	Placon, Inc., WI	(18) ^{UW} Agency:	Placon, Inc., WI
Value Awarded:	\$14,000	Value Awarded:	\$15,000
Date Awarded:	2007	Date Awarded:	2011
PI:	Giacomini, A.J.	PI:	Giacomini, A.J.
(14) ^{UW} Agency:	Placon, Inc., WI	(19) ^{UW} Agency:	Placon, Inc., WI
Value Awarded:	\$15,000	Value Awarded:	\$15,000
Date Awarded:	2008	Date Awarded:	2012
PI:	Giacomini, A.J.	PI:	Giacomini, A.J.
(15) ^{UW} Agency:	Placon, Inc., WI		
Value Awarded:	\$15,000		
Date Awarded:	2009		
PI:	Giacomini, A.J.		

GRADUATE DEGREES OR THESES SUPERVISED [Career Placement]

^{ITA}International Tuition Award, Queen's University, School of Graduate Studies

^{SPEF}Society of Plastics Engineers Foundation Lew Erwin Scholarship

^{RGJ}Royal Golden Jubilee Thai Government Graduate Fellowship

^{NSF}National Science Foundation Graduate Fellowship

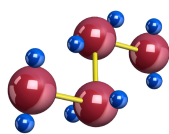
^{RTG}Royal Thai Government Graduate Fellowship

^{HFF}Hertz Foundation Graduate Fellowship

^{VCGS}Vanier Canada Graduate Scholarship

(38) ^{SPEF}Coombs, Steacy Jacqueline, "Macromolecular Branching from General Rigid Bead-Rod Theory," **Masters Thesis**, Polymers Research Group, Chemical Engineering Department, Queen's University, Kingston, CANADA (July 31, 2021). [PhD Candidate, Chemical Engineering Department, Polymers Research Group, Queen's University, Kingston, CANADA].

(37) ^{VCGS, ITA}Gilbert, Peter Hunter, "Molecular Orientation in Large-Amplitude Oscillatory Shear (LAOS) of Complex Fluids," **PhD Thesis**, Polymers Research Group, Chemical Engineering Department, Queen's University, Kingston, CANADA (September 11, 2019).



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[NIST National Research Council (NRC) Research Associate, National Institute for Standards and Technology, Gaithersburg, MD]

(36) ^{VCGS, ITA}Kanso, Mona A.,¹³ “Polymeric Liquid Behavior in Oscillatory Shear Flow,” **Masters Thesis**, Polymers Research Group, Chemical Engineering Department, Queen’s University, Kingston, CANADA (July 23, 2019). [PhD Candidate, Chemical Engineering Department, Polymers Research Group, Queen’s University, Kingston, CANADA].

(35) Jbara, Layal M., “Macromolecular Orientation of Rigid Dumbbells in Shear Flow,” **Masters Thesis**, Polymers Research Group, Chemical Engineering Department, Queen’s University, Kingston, CANADA (December 17, 2018). [PhD Candidate, Chemical Engineering Department, University of British Columbia, Vancouver, CANADA].

(34b) ^{RGJ}Saengow, Chaimongkol (ชัยมงคล แซ่โจ้ว), “Polymer Process Partitioning Approach: Plastic Pipe Extrusion (การอัดรีดท่อพลาสติกโดยระเบียบวิธีพอลิเมอร์โพรเซสพาร์ทิชันนิ่ง),” **PhD Thesis**, Mechanical and Aerospace Engineering Department, King Mongkut’s University of Technology North Bangkok, Bangkok, THAILAND (September 12, 2016). [Beckman Fellow, Beckman Institute, University of Illinois-Champaign Urbana, IL; Lecturer, Mechanical Engineering Department, Rajamangala University of Technology Lanna, Chiangmai, THAILAND; Postdoc, Chemical Engineering Dept., Queen’s University, Kingston, CANADA].¹⁴

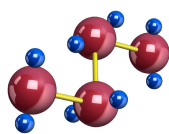
(34a) ^{RGJ}Saengow, Chaimongkol (ชัยมงคล แซ่โจ้ว), “Polymer Process Partitioning: Extruding Plastic Pipe,” **PhD Thesis**, Polymers Research Group, Chemical Engineering Department, Queen’s University, Kingston, CANADA (September 12, 2016). [Beckman Fellow, Beckman Institute, University of Illinois-Champaign Urbana, IL; Lecturer, Mechanical Engineering Department, Rajamangala University of Technology Lanna, Chiangmai, THAILAND; Postdoc, Chemical Engineering Dept., Queen’s University, Kingston, CANADA].¹⁴

(33) ^{VCGS, ITA}Gilbert, Peter Hunter, “Slip Heating in Polymer Processing,” **Masters Thesis**, Polymers Research Group, Chemical Engineering Department, Queen’s University, Kingston, CANADA (November 27, 2014). [PhD Candidate, Chemical Engineering Dept., Polymers Research Group, Queen’s University, Kingston, CANADA].

(32) Schmalzer, Andrew Michael, “Large-Amplitude Oscillatory Shear Flow of Rigid Dumbbell Suspensions,” **PhD Thesis**, University of Wisconsin, Mechanical Engineering Department, Madison, WI (August 8, 2014). [Research Scientist and Director’s Postdoctoral

¹³ 2020 Dean’s Teaching Assistant Award, Faculty of Engineering and Applied Science, Queen’s University (May 20, 2020).

¹⁴ Cotutelle Agreement, Queen’s University and King Mongkut’s University of Technology-North Bangkok.



Fellow, Los Alamos National Laboratory, Los Alamos, NM]. Errata: In Eq. (155), " $P_6^4 c_4$ " should be " $\frac{7}{396} P_6^4 c_4$ "; In Eq.(160), " $\frac{1}{63504}$ " should be " $-\frac{1}{63504}$ "; In Eq.(161), " $-\frac{1}{6\lambda} \frac{1}{432} \frac{3}{49} \frac{20}{7}$ " should be " $+\frac{1}{6\lambda} \frac{1}{432} \frac{3}{49} \frac{20}{7}$ "; In Eq.(163), " $-\frac{1}{74088}$ " should be " $+\frac{1}{74088}$ ".

(31) Schmalzer, Andrew Michael, "Slip Between Polyolefins and Extrusion Die Surfaces," **Masters Thesis**, University of Wisconsin, Mechanical Engineering Department, Madison, WI (June 11, 2013).

(30) Baek, Hyung Min "James", "Corotating or Codeforming Rheological Models for Thermoforming," **Masters Thesis**, University of Wisconsin, Mechanical Engineering Department, Madison, WI (February, 2013). [High Voltage Battery Mechanical Engineer, Ford Motor Company, Dearborn, MI].

(29) Mertz, Alex McMillen, "Understanding Melt Flow Index and ASTM D1238," **Masters Thesis**, University of Wisconsin, Mechanical Engineering Department, Madison, WI (July, 2012). [PhD Candidate, Mechanical Engineering, University of Colorado, Denver, CO].

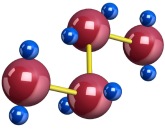
(28) Mix, Adam William, "Converging Viscometry in Curvilinear Coordinates," **Masters Thesis**, University of Wisconsin, Mechanical Engineering Department, Madison, WI (May, 2012). [Research Scientist, Curwood-Bemis, Appleton, WI].

(27) Johnson, Leann Marie, "Viscoelasticity in Thermoforming," **Masters Thesis**, University of Wisconsin, Materials Science Program, Madison, WI (May, 2011). [Senior Scientist / Engineer, Procter & Gamble, Global Laundry Products Research, Cincinnati, OH].

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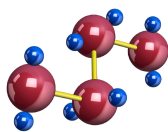
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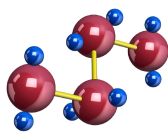
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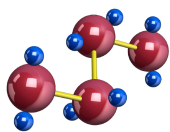


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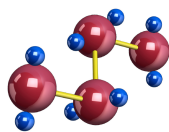
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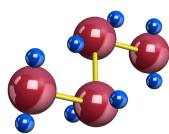
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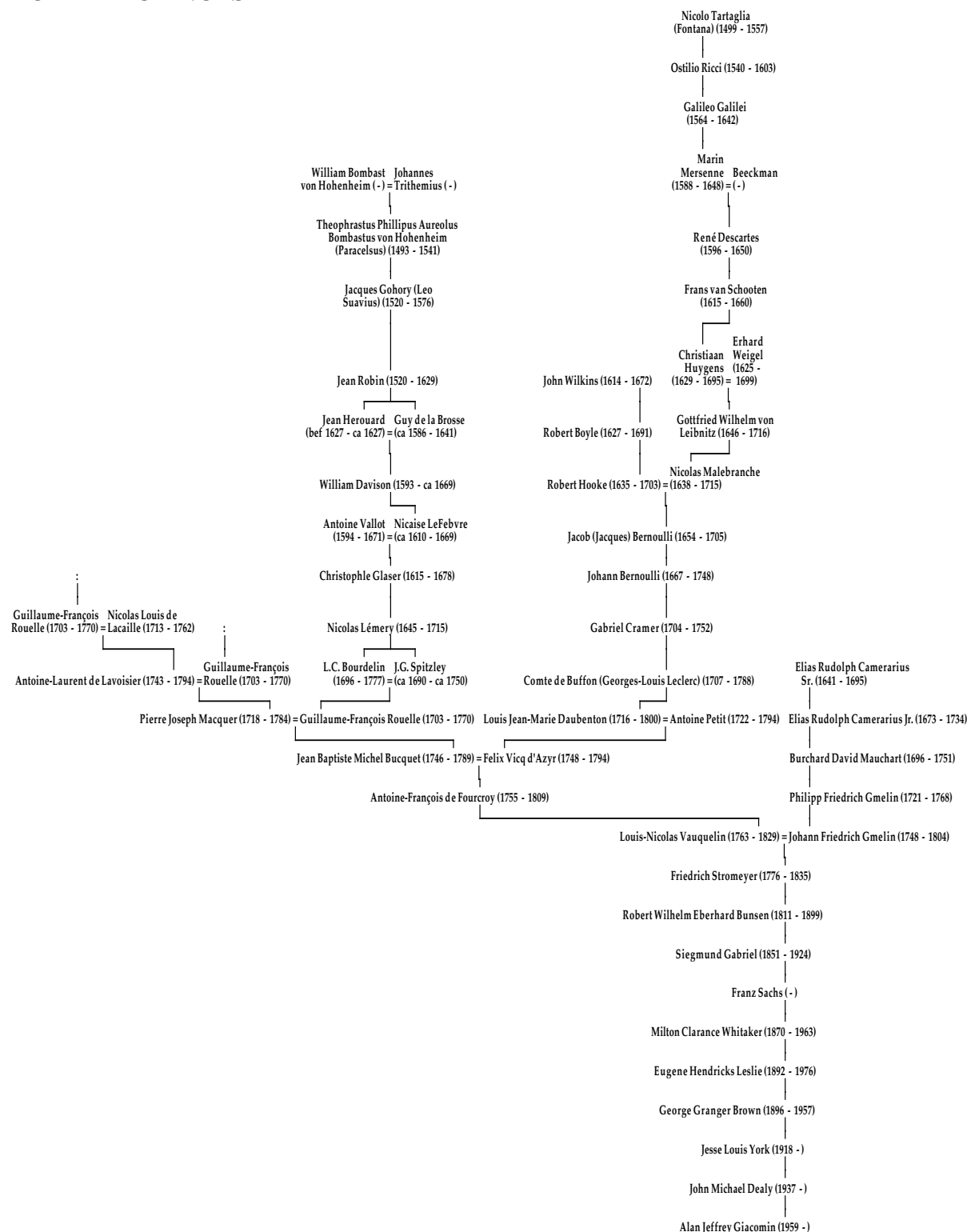
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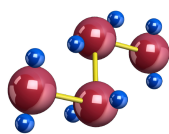
Collecting abaci, ice hockey (goaltending), Chinese characters, academic genealogy, cycling, icebiking, kayaking.





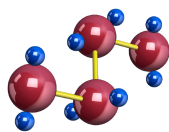
ACADEMIC ANCESTRY





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