



CURRICULUM VITAE

October 2023

NAME: Evan MITSOULIS
Professor Emeritus

BUSINESS ADDRESS: School of Mining and Metallurgical Engineering
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DATE OF BIRTH: September 17, 1954

PLACE OF BIRTH: Athens, Greece

CITIZENSHIP: Greek, Canadian

EDUCATION:

1972-1977	National Technical University of Athens, Athens, Greece. Dipl. Chem. Eng., 1977 Thesis Title: Production of Apple Wine Supervised by: Dr. G. Valkanas
1977-1979	University of New Brunswick (UNB), Fredericton, N.B., Canada. Master of Science in Engineering (M.Sc.E.), 1979 Thesis Title: Liquid Pool Fires Supervised by: Dr. F.R. Steward
1980-1984	McMaster University, Hamilton, Ontario, Canada. Doctor of Philosophy (Ph.D.), 1984 Thesis Title: Finite Element Analysis of Two-Dimensional Polymer Melt Flows Supervised by: Dr. J. Vlachopoulos and Dr. F.A. Mirza

LANGUAGES: English, French, Greek (fluently), German, Italian (very well), Spanish (reading ability)

EMPLOYMENT HISTORY:

Summer 1976:	Staatliche Lehr- und Versuchsanstalt für Wein- und Obstbau, Weinberg, W. Germany
Summer 1977:	Institute for Agriculture and Wine Research, Athens, Greece
1977-1984:	Teaching Assistant at UNB and McMaster University

1984-1989: Assistant Professor, Dept. Chem. Eng., University of Ottawa
 1989-1994: Associate Professor, Tenured, Dept. Chem. Eng., University of Ottawa
 1994-1999: Full Professor, Tenured, Dept. Chem. Eng., University of Ottawa
 Director, CAMP - R&D
 (Computer-Aided Materials Research - Rheology & Design)
 1998-2022: Full Professor, School of Mining Eng. & Metallurgy, National
 Technical University of Athens
 Director, CAMP - R&D
 (Computer-Aided Materials Research - Rheology & Design)
 2023-today: Professor Emeritus

SABBATICAL LEAVES:

1990/10-1991/03: Visiting Professor, CEntre de Mise En Forme des matériaux -
 CEMEF, Ecole des Mines de Paris, Sophia-Antipolis, France

 1990/07-1990/10 and Visiting Professor, Department of Chemical Engineering,
 1991/04-1991/07: National Technical University of Athens, Athens, Greece

 1994/07-1994/12 and Visiting Professor, Department of Chemical Engineering,
 1995/03-1995/08: National Technical University of Athens, Athens, Greece

 1995/01-1995/03: Visiting Professor, Laboratoire de Rhéologie,
 Université de Grenoble, Grenoble, France

AREAS OF INTEREST:

Computer Applications in Polymer Processing and Rheology
 CAD/CAM Techniques
 Simultaneous Fluid Flow, Heat and Mass Transfer in Chemical Engineering Systems
 Simulation of Porous Media for Enhanced Oil Recovery
 Expert Systems in Environmental Engineering

TEACHING EXPERIENCE:

A. Sept. 1984 – Dec. 1997: Full-time teaching at the University of Ottawa

Courses taught:

1. CHE1120 - Introduction to Chemical Engineering
2. CHE2319 - Elements of Chemical Process Synthesis
3. CHE2717 - Introduction à l'analyse et la conception des procédés chimiques
4. CHE2719 - Eléments de synthèse dans les procédés chimiques
5. CHE3321 - Chemical Engineering Practice
6. CHE3327 - Thermodynamic Analysis of Processes
7. CHE3331 - Application of Mathematical Methods in Chemical Engineering
8. CHE4331 - Application of Analytical Methods to Chemical Engineering Processes
9. CHE4333 - Fundamentals of Polymer Processing
10. CHE4342 - Plant Design-I
11. CHE4343 - Computer-Aided Unit Design in Chemical Engineering

12. CHE8120 - Polymer Processing and Rheology (graduate course)

B. Jan. 1998 – Aug. 2022: Full-time teaching at the National Technical University of Athens

Courses taught:

1. Polymers and Composites
2. Polymer and Composite Processing
3. Automatic Process Control
4. Rheology and Polymer Processing (graduate course)
5. Dynamic and Mechanical Material Properties - Rheology (graduate course)
6. Polymer Engineering (graduate course)
7. Numerical Methods in Non-Newtonian Fluid Processing (graduate course)
8. Polymer Processing (graduate course)

C. Sept. 1977 - July 1984: Teaching assistant at McMaster University and UNB in several courses including:

- Fluid Mechanics (also occasional lecturing)
- Chem. Eng. Lab in Unit Operations
- Computer Programming
- Heat Transfer
- Strength of Materials
- Chemistry Lab

EXTRA-CURRICULAR ACTIVITIES:

Swimming (Member of the National Swimming Team of Greece, 1970-1972)
Jogging, Music, History, Philosophy

AWARDS:

1. *Best Technical Paper Award*, Extrusion Division, 1988 ANTEC, Society of Plastics Engineers, Atlanta, GA, USA, May 1988 (paper B13, republished as A28).
2. *Award of Appreciation for Outstanding Service*, Blow Molding Division, 1990 ANTEC, Society of Plastics Engineers, Dallas, TX, USA, May 1990 (paper B20).
3. *Citation for one of the Best Technical Papers*, Applied Rheology Special Interest Group, 1994 ANTEC, Society of Plastics Engineers, San Francisco, CA, USA, May 1994 (paper B32).
4. *3rd Best Presentation Award*, THALES Awards of NTUA, 2005, for Basic Research, Athens, Greece, July 2005. "Development of Rheological Equations for Composite Materials with a Polymeric Matrix".

HONOURS:

1. Elected Fellow of the Chemical Institute of Canada (FCIC), March 1994.
2. Médaille d'Honneur, Société d'Encouragement au Progrès, France, September 2000.
3. Bingham Fluid Medal, 2nd Viscoplastic Workshop, Monte Verita, Switzerland, October 2007.
4. Elected Senior Member of the Society of Plastics Engineers (SSPE), USA, September 2008.
5. Elected Fellow of the Society of Plastics Engineers (FSPE), March 2009.

PROFESSIONAL MEMBERSHIP AND OTHER ACTIVITIES:

a) Professional Membership:

1. Technical Chamber of Greece (TEE) (1977).
2. Association of Professors of the University of Ottawa (APUO) (1984).
3. Society of Plastics Engineers (SPE) (1982).
4. Chemical Institute of Canada (CIC) (1983).
(Elected Fellow, FCIC) (1994).
5. Canadian Rheology Group (CRG) (1983).
6. Canadian Society for Chemical Engineering (CSCHE) (1983).
7. American Institute of Chemical Engineers (AIChE) (1983).
8. Society of Rheology (SOR) (1984).
9. Polymer Processing Society (PPS) (1985).
10. Association of Professional Engineers of Ontario (APEO)
(Licensed Engineer, P.Eng.) (1989).
11. Computational Fluid Dynamics Society of Canada (CFDSC) (1992).
12. World User Association - Computational Fluid Dynamics (WUA-CFD) (1992).
13. New York Academy of Sciences (1995).
14. Hellenic Society of Rheology (Founding Member and 1st President) (1996).
15. European Scientific Association for Material Forming (ESAFORM) (Member of the Scientific Advisory Committee) (1997).
16. Scientific Society of Technologists of Mineral Wealth (2002).

b) University Committees at the University of Ottawa:

1. Commission on Graduate Studies in the Sciences (1991-1994; 1996).
2. Graduate Studies Coordinator (1991-1994, 1996).
3. CAD/CAM Committee of the Faculty of Engineering (1985-1989).
4. Departmental Teaching Personnel Committee (1985-1987, 1996-1997).
5. Coordinator for Engineering, Univ. of Ottawa Day (Open House) (1986-1990).
6. Faculty Council (1985-1986, 1995-1997).
7. Teaching Effectiveness Committee (1985-1990).
8. CIC-CSCHE Student Chapter Advisor (1984-1988).
9. Engineering Computing Committee (1986-1990).
10. Engineering United Way Committee (1996-1997).
11. Departmental Curriculum Committee (1995-1997, Chairman from Feb. to Dec. 1997).

c) University Committees at the National Technical University of Athens:

1. Commission on Appraisal of NTUA Teaching and Services (1998-1999).
2. Senate Commission on University Building Projects (1998-present).
3. Deputy Member in Departmental Multipurpose Unit (1998-1999) and Member (1999-present).
4. Coordinator for Departmental Curriculum Guide (1998-present).
5. Coordinator for Section Research Guide (1998-present).
6. Executive Committee for Interdepartmental Graduate Programme "Automation Systems" (1999-2007).
7. Member of the Senate (2000-2001)

d) Other Duties:

- **Examiner** of Co-op reports, M.A.Sc. and Ph.D. theses.
- Regular **Peer Reviewer** for proposals submitted to NSERC (Canada), FCAR (Quebec), NSF (USA), ANSF (Australia).
- **Peer Reviewer** for proposals submitted to GGET (Greece) (PEPER 2000).
- Regular **Journal Referee**:
 1. Canadian Journal of Chemical Engineering
 2. American Journal of Chemical Engineering
 3. Polymer Engineering and Science
 4. Polymer Composites
 5. Advances in Polymer Technology
 6. International Polymer Processing
 7. Journal of Applied Polymer Science
 8. Journal of Rheology
 9. Journal of Non-Newtonian Fluid Mechanics
 10. Rheologica Acta
 11. Rubber Chemistry and Technology
 12. International Journal for Numerical Methods in Fluids
 13. Urban Atmosphere/Atmospheric Environment
 14. Journal of Engineering Mathematics
 15. Global Nest: The International Journal
 16. International Journal of Forming Processes
 17. Computer Methods in Applied Mechanics and Engineering
 18. Biotechnology Progress
 19. Chemical and Biochemical Engineering Quarterly
 20. Physics of Fluids
 21. Journal of Polymer Engineering
 22. Chemical Engineering and Science
 23. Journal of Fluids Engineering
 24. Journal of Plastic Film & Sheeting
 25. Industrial and Engineering Chemistry Research
 26. International Journal of Material Forming
- **President** (or **Chair**) and **Organizer** and regular **Session Chair** and **Session Organizer** in several International Conferences:

1. **President** of the 1st International Symposium on Rheology and Computational Fluid Mechanics organized by the Hellenic Society of Rheology in memory of Prof. T.C. Papanastasiou, in Nicosia, Cyprus, July 1996.
 2. **President** of the 2nd International Symposium on Rheology organized by the Hellenic Society of Rheology in Herakleion, Crete, Greece, August 1998.
 3. **Organizer** of an International Workshop on Numerical Simulation of Polymer Processing (NMPP 99), Paris, France, October 1999.
 4. **Co-Chair** and **Organizer** of the PPS-2003, Europe/Africa Regional Meeting of the Polymer Processing Society, Athens, Greece, September 2003.
 5. **President** and **Organizer** of the 4th International Symposium on Rheology organized by the Hellenic Society of Rheology in Athens, Greece, June 2004.
 6. **President** and **Organizer** of the 5th International Symposium on Rheology organized by the Hellenic Society of Rheology in Rhodes, Greece, June 2007.
 7. **President** and **Organizer** of the XVth International Workshop on Numerical Methods for Non-Newtonian Flows in Rhodes, Greece, June 2007.
 8. **President** and **Organizer** of the PPS-2009, Europe/Africa Regional Meeting of the Polymer Processing Society, Larnaca, Cyprus, October 2009.
 9. **President** and **Organizer** of the 6th International Symposium on Rheology organized by the Hellenic Society of Rheology in Athens, Greece, June 2011.
- **Member of the Editorial Board of Scientific Journals and of the Scientific Committee of Conferences:**

A. Scientific Journals

1. **Member** of the Editorial Board of the International Journal of Forming Processes (1997-2005).
2. **Member** of the Editorial Board of the “Rhéologie”, Journal of the Groupe Français de Rhéologie (since 2001).
3. **Member** of the Editorial Board of the Journal “Applied Rheology” (since 2003).
4. **Member** of the Editorial Board of the Journal “Computer Methods in Materials Science” (since 2006).
5. **Member** of the Editorial Board of the “Journal of Non-Newtonian Fluid Mechanics” (from 2007 to 2021).
6. **Member** of the Editorial Board of the “International Journal of Polymer Materials” (since 2008).
7. **Member** of the Editorial Board of the International Journal of Material Forming (since 2008).

B. Scientific Conferences

1. **Member** of the Editorial Board of the 5th European Rheology Conference, Portoroz, Slovenia, September 1998.
2. **Member** of the Editorial Board of the 2nd ESAFORM Conference on Material Forming, Guimaraes, Portugal, April 1999.
3. **Member** of the Editorial Board of the 3rd ESAFORM Conference on Material Forming, Stuttgart, Germany, April 2000.
4. **Member** of the Editorial Board of the 5th ESAFORM Conference on Material Forming, Cracow, Poland, April 2002.

5. **Member** of the Editorial Board of the 6th ESAFORM Conference on Material Forming, Salerno, Italy, April 2003.
 6. **Member** of the Editorial Board of the 8th ESAFORM Conference on Material Forming, Cluj-Napoca, Romania, April 2005.
 7. **Member** of the Editorial Board of the 10th ESAFORM Conference on Material Forming, Zaragoza, Spain, April 2007.
 8. **Member** of the Editorial Board of the 11th ESAFORM Conference on Material Forming, Lyon, France, April 2008.
- **Secretary** of the International Polymer Processing Society (since 2001).
 - **Elected member** of the Board of Directors of the European Scientific Association for Material Forming (ESAFORM) (April 2002-April 2008).

RESEARCH GRANTS:

Agency	Amt. rec'd/annum	Period covered
Rector's Fund (Univ. of Ottawa) (Operating)	8,000	1984-1985
NSERC (Operating)	18,000	1985-1986
Rector's Fund (Univ. of Ottawa)	5,000	1985
NSERC (Operating)	17,280	1986-1988
MCU (Prov. of Ontario) (Operating)	3,500	1987
URF (Univ. of Ottawa) (Operating)	3,500	1987-1988
Faculty Development Fund (Equipment)	5,000	1988 (Winter)
NSERC (Operating)	30,000	1988-1990
URF (Univ. of Ottawa) (Equipment)	2,500	1988 (Fall)
URF (Univ. of Ottawa) (Equipment)	3,750	1989 (Spring)
NSERC (Infrastructure)		
(with Profs. <u>Hornof</u> , Neale, Duvnjak)	15,000	1989-1990
Dean's Fund (Operating)	14,000	1989-1991
URF (Univ. of Ottawa) (Operating)	3,500	1990 (Winter)
OCMR (Operating)		
(with Profs. <u>Vlachopoulos</u> , Hrymak		
of McMaster University)	64,000	1990-1992
NSERC (Collaborative)	6,000	1990-1991
NSERC (Operating)	34,000	1991-1993
URF (Univ. of Ottawa) (Equipment)	2,500	1992 (Winter)
OCMR (Operating)	40,000	1993-1994
OCMR (Operating)	35,000	1994-1996
NSERC (Operating)	31,740	1994-1998
NSERC (Equipment)	32,509	1995
OCMR (Equipment)	20,000	1995
Univ. of Ottawa (Equipment)	5,834	1995
OCMR (Operating)	45,000	1996-1997
OCMR (Operating)	20,000	1997
OCMR (Equipment)	9,000	1997
NSERC (Operating)	32,780	1998-2002

PENED'99 (Operating)	45,000,000 drs	2000-2001
(with Profs. Tsamopoulos, Univ. Patras, Spathis, NTUA)		

Greece-Germany (Collaborative) (with Prof. Münstedt, Univ. Erlangen)	4,200,000 drs.	2000-2001
SOCRATES, Greece-Cyprus (Teaching) (with Prof. Georgiou, Univ. Cyprus)	expenses for visits	2000-2012
ARCHIMEDES, NTUA (Basic Research)	3,000,000 drs.	2000-2001
Greece-Slovenia (Collaborative) (with Prof. Zupancic, Univ. Ljubljana)	4,200,000 drs.	2001-2003
THALES, NTUA (Basic Research)	2,400,000 drs. (€5,869.41)	2002-2004
Greece-Slovenia (Collaborative) (with Prof. Zupancic, Univ. Ljubljana)	4,200,000 drs. (€11,720)	2003-2005
HERAKLEITOS, GGET (Basic Research)	€34,046.00	2002-2005
PIAM, EU (Basic Research)	€32,107.00	2004-2006
Greece-Slovenia (Collaborative) (with Prof. Zupancic, Univ. Ljubljana)	€11,740	2005-2007
KARATHEODORI, NTUA (Basic Research)	€15,000.00	2007-2009
PEBE, NTUA (Basic Research)	€15,000.00	2009-2011
THALES, (Collaborative Basic Research) (Univ. Crete, Univ. Patras, NTUA, Univ. Cyprus)	€540,000.00	2012-2015

SUPERVISORSHIPS:

(past)

- 5 Ph.D. completed (Kiriakidis, Hannachi, Missirlis, Argyropaidas, Sofou)
- 7 M.A.Sc. completed (Wagner, Heng, Abdali, Atsbha, Barakos, Spanou, Beaulne)
- 9 M.Eng. completed (Chung, Iosipou, Athanasopoulos, Mihopoulos, Mavridis, Galazoulas, Ntagas, Psarreas, Kotsos)
- 11 B.A.Sc. completed (Sturgeon, Pham, Bhargava, Blackery, Argyropaidas, Kammer, Zisis, Panoglou, Papoulas, Matsoukas, Katopodis)
- 1 Post-doctoral fellow (Sept. 1988 - April 1990) (X.-L. Luo)
- 1 Post-doctoral fellow (July 1990 - Dec. 1991) (Park)
- 1 Post-doctoral fellow (Nov. 1991 - May 1992) (Loest)
- 1 Post-doctoral fellow (Nov. 1991 - Dec. 1992) (Kiriakidis)
- 1 Post-doctoral fellow (May 1994 - Oct. 1995) (Erlikhman)
- 1 Post-doctoral fellow (Oct. 1995 - Dec. 1995) (Kangni)
- 1 Post-doctoral fellow (Sept. 1996 - Apr. 1997) (H.-Q. Luo)
- 1 Visiting Professor (Mar. 1993 - Dec. 1993) (Kajiwara)
- 1 Research Assistant (Mar. 1994 - Apr. 1995) (Barakos)
- 1 Research Assistant (Oct.-Dec. 1995) (Xie)
- 1 Research Assistant (Jan.-Apr. 1996) (Fatemi)
- 4 Research Assistants (Jan. 2000 – Oct. 2001) (Missirlis, Beis, Latsa, Goulas)
- 2 Research Assistants (Jan. 2000 – Oct. 2001) (Argyropaidas, Missirlis)
- 2 Research Assistants (Mar. 2003 – Dec. 2003) (Mavridis, Kotsos)
- 2 Research Assistants (Oct. 2002 – Oct. 2004) (Sofou, Papoulas)
- 2 Research Assistants (Oct. 2005 – Oct. 2007) (Kotsos, Zisis)
- 2 Research Assistants (Feb. 2007 – Feb. 2009) (Zisis, Sofou)
- 1 Research Assistant (Nov. 2009 – Nov. 2011) (Zisis)
- 2 Post-doctoral fellows (Jan. 2012 - 2015) (Karapetsas, Zisis)

LIST OF PUBLICATIONS:

- A. In Refereed Journals : **175**
- B. In Refereed Conference Proceedings : **136**
- C. Abstracts Presented at Conferences and Workshops : **174**
- D. Chapters in Books : **13**
- E. Publications in Greek Journals and Periodicals: **3**

TOTAL: 501

A. In Refereed Journals

- 175. Mitsoulis, E.,** Hatzikiriakos, S.G., "*60 Years of the Kaye-Bernstein, Kearsley, Zapas Rheological Constitutive Law for Polymers*", Phys. Fluids, **35**, 54 manuscript pages (2023).
- 174. Mitsoulis, E.,** Polychronopoulos, N.D., Hatzikiriakos, S.G., "*Calendering of Thermoplastics: Models and Computations*", Intern. Polym. Proc., **37**, 341-356 (2022).
- 173. Mitsoulis, E.,** Kontopoulou, M., "*Special Issue for John Vlachopoulos*", Intern. Polym. Proc., **37**, 339-340 (2022).
- 172. Ghahramani, N.,** Georgiou, G.C., **Mitsoulis, E.,** Hatzikiriakos, S.G., "*J.G. Oldroyd's Early Ideas Leading to the Modern Understanding of Wall Slip*", J. Non-Newtonian Fluid Mech., **293**, 104566, DOI: 10.1016/j.jnnfm.2021.104566 (2021).
- 171. Stieger, S., Mitsoulis, E.,** Walluch, M., Ebner, C., Kerschbaumer, R.Ch., Haselmann, M., Mostafaiyan, M., Kämpfe, M., Kühnert, I., Wießner, S., and Friesenbichler, W., "*On the Influence of Viscoelastic Modeling in Fluid Flow Simulations of Gum Acrylonitrile Butadiene Rubber*", Polymers, **13**, 2323, <https://doi.org/10.3390/polym13142323>, 1-18 (2021).
- 170. Mitsoulis, E.,** Hatzikiriakos, S.G., "*Rheological Properties Related to Extrusion of Polyolefines*", Polymers, **13**, 489, <https://doi.org/10.3390/polym13040489>, 1-12 (2021).
- 169. Stieger, S.,** Kerschbaumer, R.Ch., **Mitsoulis, E.,** Fasching, M., Berger-Weber, G.R., Friesenbichler, W., and Sunder, J., "*Contraction and Capillary Flow of a Carbon Black Filled Rubber Compound*", Polym. Eng. Sci., October 2019, <https://doi.org/10.1002/pen.25256>, 1-12 (2019).
- 168. Jabbari, M.,** McDonough, J., **Mitsoulis, E.,** Hattel, J.H., "*Application of a Projection Method for Simulating Flow of a Shear-Thinning Fluid*", Fluids, **4**, 124-140 (2019).
- 167. Tomkovic, T., Mitsoulis, E.,** Hatzikiriakos, S.G., "*Contraction Flow of Ionomers*", J. Non-Newtonian Fluid Mech., **262**, 131-141 (2018).
- 166. Mitsoulis, E.,** Luger, H.-J., Miethlinger, J., and Friesenbichler, W., "*Flow Behavior of a Polypropylene Melt in Capillary Dies*", Intern. Polym. Proc., **33**, 642-651 (2018).

165. Mitsoulis, E., Battisti, M., Neunhäuserer, A., Perko, L., and Friesenbichler, W., *"Flow Behavior of PP-Polymer Nanocomposites in Injection Molding Hyperbolic Dies"*, Adv. Polym. Technol., 24 April 2018, <https://doi.org/10.1002/adv.21975>, 1-11 (2018).
164. Konaganti, V.K., Behzadfar, E., Kwak, R., Mitsoulis, E., Hatzikiriakos, S.G., *"Transient Swell of a High Density Polyethylene Using Adjustable Gap Slit Die"*, Intern. Polym. Proc., **32**, 574-581 (2017).
163. Mitsoulis, E., Battisti, M., Neunhäuserer, A., Perko, L., Friesenbichler, W., Ansari, M., Hatzikiriakos, S.G., *"Flow Behavior of Rubber in Capillary and Injection Moulding Dies"*, Plastics, Rubber, Composites, **46**, 110-118 (2017).
162. Mitsoulis, E., Battisti, M., Neunhäuserer, A., Perko, L., Friesenbichler, W., *"Flow Behavior of PP-Polymer Nanocomposites in Capillary and Injection Molding Dies"*, Intern. Polym. Proc., **32**, 217-226 (2017).
161. Voyiatzis, E., Tsenoglou, C.J., Mitsoulis, E., *"Tube Inflation of Viscoelastic Fluids at a Constant Growth Rate"*, Soft Materials, **15**, 121-131 (2017).
160. Mitsoulis, E., Tsamopoulos, J., *"Numerical Simulations of Complex Yield Stress Fluid Flows"*, Rheol. Acta, **56**, 231-258 (2017).
159. Konaganti, V.K., Derakhshandeh, M., Ebrahimi, M., Mitsoulis, E., Hatzikiriakos, S.G., *"Non-Isothermal Extrudate Swell"*, Phys. Fluids, **28**, 123101, 1-19 (2016).
158. Konaganti, V.K., Ansari, M., Mitsoulis, E., Hatzikiriakos, S.G., *"The Effect of Damping Function on Extrudate Swell"*, J. Non-Newtonian Fluid Mech., **236**, 73-82 (2016).
157. Jabbari, M., Bulatova, R., Tok, A.I.Y., Bahl, C.R.H., Mitsoulis, E., Hattel, J.H., *"Ceramic Tape Casting: A Review of Current Methods and Trends with Emphasis on Rheological Behavior and Flow Analysis"*, Mater. Sci. Eng. B, **212**, 39-61 (2016).
156. Konaganti, V.K., Behzadfar, E., Ansari, M., Mitsoulis, E., Hatzikiriakos, S.G., *"Extrudate Swell of High-Density Polyethylenes in Slit (Flat) Dies"*, Intern. Polym. Proc., **31**, 262-272 (2016).
155. Konaganti, V.K., Ansari, M., Mitsoulis, E., Hatzikiriakos, S.G., *"Extrudate Swell of a High-Density Polyethylene Melt: II. Modeling Using Integral and Differential Constitutive Equations"*, J. Non-Newtonian Fluid Mech., **225**, 94-105 (2015).
154. Kountouriotis, Z., Georgiou, G.C., Mitsoulis, E., *"Numerical Study of the Combined Effects of Inertia, Slip, and Compressibility in Extrusion of Yield Stress Fluids"*, Rheol. Acta, **53**, 791-804 (2014).
153. Othman, N., Ansari, M., Zisis, Th., Mitsoulis, E., Hatzikiriakos, S.G., *"Entry Flows of Polylactides with Slip"*, J. Non-Newtonian Fluid Mech., **210**, 78-84 (2014).
152. Ardakani, H.A., Mitsoulis, E., Hatzikiriakos, S.G., *"Capillary Flow of Milk Chocolate"*, J. Non-Newtonian Fluid Mech., **210**, 56-65 (2014).

151. Ardakani, H.A., **Mitsoulis, E.**, Hatzikiriakos, S.G., "Polytetrafluoroethylene (PTFE) Paste Extrusion: A Fibrillation Model and its Relation to Mechanical Properties", Intern. Polym. Proc., **28**, 306-313 (2013).
150. Karapetsas, G., **Mitsoulis, E.**, "Some Experiences with the Slip Boundary Condition in Viscous and Viscoelastic Flows", J. Non-Newtonian Fluid Mech., **198**, 96-108 (2013).
149. Filali, A., Khezzar, L., **Mitsoulis, E.**, "Some Experiences with the Numerical Simulation of Newtonian and Bingham Fluids in Dip Coating", Comput. Fluids, **82**, 110-121 (2013).
148. Ansari, M., **Mitsoulis, E.**, Hatzikiriakos, S.G., "Capillary Extrusion and Swell of a HDPE Melt Exhibiting Slip", Adv. Polym. Technol., **32**, E369-E385 (2013).
147. **Mitsoulis, E.**, Malamataris, N.A., "The Free (Open) Boundary Condition (FBC) in Viscoelastic Flow Simulations", Int. J. Mater. Form., **6**, 49-63 (2013).
146. **Mitsoulis, E.**, Hatzikiriakos, S.G., "Capillary Extrusion Flow of a Fluoropolymer Melt", Int. J. Mater. Form., **6**, 29-40 (2013).
145. Ardakani, H.A., **Mitsoulis, E.**, Hatzikiriakos, S.G., "A Simple Improved Mathematical Model for Polytetrafluoroethylene (PTFE) Paste Extrusion", Chem. Eng. Sci., **89**, 216-222 (2013).
144. Kountouriotis, Z., Georgiou, G.C., **Mitsoulis, E.**, "On the Combined Effects of Slip, Compressibility, and Inertia on the Newtonian Extrudate-Swell Flow Problem", Comput. Fluids, **71**, 297-305 (2013).
143. **Mitsoulis, E.**, Hatzikiriakos, S.G., "Annular Extrudate Swell of a Fluoropolymer Melt", Intern. Polym. Proc., **27**, 535-546 (2012).
142. Dimakopoulos, Y., Karapetsas, G., Malamataris, N.A., **Mitsoulis, E.**, "The Free (Open) Boundary Condition at Inflow Boundaries", J. Non-Newtonian Fluid Mech., **187-188**, 16-31 (2012).
141. Christodoulou, K.N., Hatzikiriakos, S.G., **Mitsoulis, E.**, "Numerical Simulation of the Wire-Pinning Process in PET Film Casting: Steady-State Results", AIChE J., **58**, 1979-1986 (2012).
140. **Mitsoulis, E.**, Malamataris, N.A., "The Free (Open) Boundary Condition with Integral Constitutive Equations", J. Non-Newtonian Fluid Mech., **177-178**, 97-108 (2012).
139. **Mitsoulis, E.**, Hatzikiriakos, S.G., "Tubing Extrusion of a Fluoropolymer Melt", Intern. Polym. Proc., **27**, 259-269 (2012).
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B. In Refereed Conference Proceedings

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124. **Mitsoulis, E.**, (Invited Paper), "*Modeling and Simulation of Viscoelasticity with Integral Constitutive Equations*", Symposium on New Frontiers in Chemical and Biochemical Engineering, Thessaloniki, GREECE, November, 2009.
123. **Mitsoulis, E.**, Alexandrou, A., "*Calendering of Viscoplastic Materials*", VPF2009, 3rd Workshop on "Visco-plastic Fluids, from Theory to Application", Limassol, CYPRUS, November 2009.
122. **Mitsoulis, E.**, "*Steady Simulations of Fountain Flow of Viscoplastic Fluids*", VPF2009, 3rd Workshop on "Visco-plastic Fluids, from Theory to Application", Limassol, CYPRUS, November 2009.
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118. Mitsoulis, E., Hatzikiriakos, S.G., *"Rolling of Mozzarella Cheese and Bread Dough"*, 58th Canadian Chemical Engineering Conference, Ottawa, CANADA, October 2008.
117. Mitsoulis, E., *"New Results for Calendering Viscoplastic Materials"*, Mason Award Symposium of the Canadian Society of Rheology, Hamilton, CANADA, November 2007.
116. Huilgol, R.R., You, Z., Mitsoulis, E., *"Application of the Lambert W Function to Obtain Analytic Solutions for the Papanastasiou Model"*, Workshop on "Viscoplastic Fluids, from Theory to Application", Monte Verita, SWITZERLAND, October 2007.
115. Mitsoulis, E., *"Drag Flow of Viscoplastic Fluids past Cylinders: Comparison between Experiments and Simulations"*, Workshop on "Visco-plastic Fluids, from Theory to Application", Monte Verita, SWITZERLAND, October 2007.
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113. Sirakov, I., Mitsoulis, E., *"Viscoelastic Analysis of Complex Flows: From the Constitutive Model through the Numerical Simulations and Their Experimental Validation"*, 15th International Workshop on Numerical Methods for Non-Newtonian Flows, Rhodes, GREECE, June 2007.
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95. **Mitsoulis, E.**, Ochoa, I., Hatzikiriakos, S.G., "*Paste Extrusion of PTFE: Experiments and Simulations*", 77th Annual Meeting of the Society of Rheology, Vancouver, CANADA, October 2005.
94. Chatzimina, M., Georgiou, G., **Mitsoulis, E.**, Huilgol, R.R., "*Finite Stopping Times in Cessation Flows of Bingham Plastic Fluids: A Numerical Study*", AERC 2005, 2nd Annual European Rheology Conference, Grenoble, FRANCE, April 2005.
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74. Mitsoulis, E., *"Flow of Viscoplastic Fluids through Expansions and Contractions"*, 13th International Workshop on Numerical Methods for Non-Newtonian Flow, Lausanne, SWITZERLAND, June 2003.
73. Mitsoulis, E., (Invited Keynote Paper), *"Flow of Viscoplastic Materials in Benchmark Geometries"*, (in Greek), 5th Panhellenic Congress on Polymers, Herakleion, Crete, GREECE, December 2001.
72. Mitsoulis, E., Hatzikiriakos, S.G., *"Some Success Stories in the Numerical Simulation of Polymer Flows with the K-BKZ Model"*, 73rd Annual Meeting of the Society of Rheology, Bethesda, Maryland, USA, October 2001.
71. Mitsoulis, E., *"New Developments in Predicting Strain Hardening with Integral Constitutive Equations"*, 12th International Workshop on Numerical Methods for Non-Newtonian Flow, Monterey, California, USA, July 2001.
70. Mitsoulis, E., Hatzikiriakos, S.G., *"The Behaviour of Branched PP in Rheometry"*, Proceedings of the 3rd Pacific Rim Conference on Rheology, Vancouver, CANADA, July 2001.
69. Mitsoulis, E., Athanasopoulos, G., *"Modeling of Viscous Effects in Blade Coating Flows"*, HSR 2001, 3rd International Meeting of the Hellenic Society of Rheology, Patras, GREECE, June 2001.
68. Mitsoulis, E., Beaulne, M., Kammer, D., Zissis, A., *"Modeling of Viscoplastic Lid-Driven Cavity Flow Using Finite Element Simulations"*, HSR 2001, 3rd International Meeting of the Hellenic Society of Rheology, Patras, GREECE, June 2001.
67. Mitsoulis, E., (Invited Keynote Paper), *"Methods for Viscoelastic Simulation"*, Workshop on Constitutive Equations and Solvers: Current Status Initiative, University of Bradford, Bradford, UNITED KINGDOM, January 2001.
66. Schwetz, M., Mitsoulis, E., *"Flow of Polymer Melts: Measurements and Simulations"*, Workshop for German-Greek Joint Research and Technology Programs focused on Materials Research, FORTH-HELLAS, Heraklion, Crete, GREECE, December 2000.

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64. Mitsoulis, E., *"The High Non-Linearity of Rheological Constitutive Equations for Polymers"*, 1st Interdisciplinary Symposium on Non-Linear Problems, NTUA, Athens, GREECE, January 2000.
63. Mitsoulis, E., *"Shear-Free Flows: Film Blowing, Fiber Spinning, Film Casting"*, NMPP '99, Workshop on Numerical Simulation of Polymer Processing, Ed. E. Mitsoulis, Paris, FRANCE, October 1999.
62. Mitsoulis, E., Beaulne, M., *"The Effect of Rheology in Film Casting"*, 71st Annual Meeting of the Society of Rheology, Madison, Wisconsin, USA, October 1999.
61. Mitsoulis, E., Beaulne, M., *"Viscoplastic and Viscoelastic Flows in Generalized Ducts"*, EURORHEO'99-3 – Southern Europe Conference on Rheology, Falerna Lido, ITALY, September 1999.
60. Mitsoulis, E., *"Flow of LDPE through Contractions: Comparison of Simulations with Experiments"*, 11th International Workshop on Numerical Methods for Non-Newtonian Flow, Vaalsbroek, The NETHERLANDS, August 1999.
59. Mitsoulis, E., *"Numerical Simulation of Flows of Polymer Solutions and Melts through Contractions"*, 70th Annual Meeting of the Society of Rheology, Monterey, California, USA, October 1998.
58. Beaulne, M., Mitsoulis, E., *"Numerical Simulation of Polymer Melt Spinning"*, 48th Canadian Chemical Engineering Conference, London, Ontario, CANADA, October 1998.
57. Mitsoulis, E., Beaulne, M., *"Some Experiences with Modelling Shear-Free Flows in Polymer Processing"*, 2nd Meeting of the Hellenic Society of Rheology and International Symposium, Heraklion, Crete, GREECE, August 1998.
56. Mitsoulis, E., Beaulne, M., *"Film Casting Simulations with Integral Constitutive Equations"*, North American Meeting of the Polymer Processing Society, Toronto, Ontario, CANADA, August 1998.
55. Mitsoulis, E., (Invited Keynote Paper), *"Viscoelastic Modelling in Flows through Extrusion Dies"*, 14th Annual Meeting of the Polymer Processing Society, Yokohama, JAPAN, June 1998.
54. Mitsoulis, E., *"Rheological Implications in the Processing of Polymer Films and Fibers"*, (in Greek), 4th Panhellenic Congress on Polymers, Patras, GREECE, November 1997.
53. Beaulne, M., Mitsoulis, E., *"Rheological Effects in the Manufacturing of Polymer Films and Fibers"*, 47th Canadian Chemical Engineering Conference, Edmonton, Alberta, CANADA, October 1997.
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48. Mitsoulis, E., *"Excess Pressure Losses in Flows of Polymer Melts"*, 2nd International Conference on the Dynamics of Polymeric Liquids, EURORHEO 1, Capri, ITALY, May 1997.
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46. Mitsoulis, E., *"Implementation of the Adaptive Viscoelastic Stress Splitting (AVSS) Method for Polymer Flows"*, AICHE Annual Meeting, Chicago, Illinois, USA, November 1996.
45. Mitsoulis, E., Hatzikiriakos, S.G., *"The Bagley End Correction in the Capillary Flow of Molten Polymers"*, 6th European Polymer Federation Symposium EPF'96, Aghia Pelaghia, Crete, GREECE, October 1996.
44. Mitsoulis, E., Blackery, J., *"Viscoplastic Flows around Spheres"*, 46th Canadian Chemical Engineering Conference, Kingston, Ontario, CANADA, October 1996.
43. Mitsoulis, E., Pham, T.V., *"Flows in Generalized Ducts"*, 46th Canadian Chemical Engineering Conference, Kingston, Ontario, CANADA, October 1996.
42. Mitsoulis, E., Pham, V.T., *"Viscoelastic Modelling of Blade Coating"*, 12th Annual Meeting of the Polymer Processing Society, Sorrento, ITALY, May 1996.
41. Mitsoulis, E., Pham, T.V., *"Viscoelastic Effects in Blade Coating"*, Coatings Symposium, 1996 Spring National AIChE Meeting, New Orleans, LA, USA, February 1996.
40. Mitsoulis, E., *"Some Success Stories in Viscoelastic Simulations of Polymer Fluid Flows"*, 32nd Annual Technical Meeting, SES'95, Society of Engineering Science, New Orleans, LA, USA, October 1995.
39. Mitsoulis, E., Pham, T.V., Barakos, G., *"Rheological Characterization of Polymer Solutions Used in Blade Coating"*, 45th Canadian Chemical Engineering Conference, Quebec City, Quebec, CANADA, October 1995.
38. Mitsoulis, E., Barakos, G., *"Viscoelastic Effects in Flows around Cylinders and Spheres"*, 67th Annual Meeting of the Society of Rheology, Sacramento, California, USA, October 1995.
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35. Mitsoulis, E., Barakos, G., Pham, V.T., *"Viscoelastic Modelling of Coating Flows"*, 11th Annual Meeting of the Polymer Processing Society, Seoul, KOREA, March 1995.
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32. Mitsoulis, E., *"Viscoelastic Modelling of Polymer Melts and its Role in Polymer Processing"*, NATO Institute of Advanced Studies on Rheology and Polymer Processing, Algarve, Portugal, October 1994.
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29. Mitsoulis, E., Barakos, G., *"Viscoelastic Effects in Blade Coating"*, International Symposium on Viscoelastic Fluids, Ed. C.J.S. Petrie, Tobago, West Indies, January 1994.
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27. Barakos, G., Mitsoulis, E., *"Non-Isothermal Simulations of Polymer Melts in Flows through Dies"*, 65th Annual Meeting of the Society of Rheology, Boston, Massachusetts, USA, October 1993.
26. Barakos, G., Mitsoulis, E., *"Differences in Behaviour of Various Polyethylene Melts through Numerical Simulation"*, 43rd Canadian Chemical Engineering Conference, Ottawa, Ontario, CANADA, October 1993.
25. Kajiwar, T., Barakos, G., Mitsoulis, E., *"Rheological Characterization of Polymer Solutions and Melts with an Integral Constitutive Equation"*, Proceedings of the 6th International Symposium on Polymer Analysis and Characterization (ISPAC), Aghia Pelaghia, Crete, GREECE, July 1993.
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21. Mitsoulis, E., Abdali, S.S., Markatos, N.C., *"Flow of Viscoplastic Materials through Extrusion Dies"*, 8th Annual Meeting of the Polymer Processing Society, New Delhi, INDIA, March 1992.
20. Mitsoulis, E., Park, H.J., *"Recent Progress in the Simulation of Polymer Solutions and Melts Using an Integral Constitutive Equation"*, 7th International Workshop on Numerical Methods for Non-Newtonian Flow, Stuart, Florida, USA, February 1992.
19. Kiriakidis, D.G., Mitsoulis, E., Neale, G.H., *"Numerical Simulations of Immiscible Fluid-Fluid Displacement Flow in Porous Media"*, 41st Canadian Chemical Engineering Conference, Vancouver, British Columbia, CANADA, October 1991.
18. Mitsoulis, E., Hannachi, A., *"Multilayer Sheet Coextrusion: Comparison between Simulation and Experiments"*, 41st Canadian Chemical Engineering Conference, Vancouver, British Columbia, CANADA, October 1991.
17. Mitsoulis, E., Park, H.J., *"Numerical Simulation of Boger Fluids through Contractions Using an Integral Constitutive Equation"*, 14th Discussion Conference on Rheology of Polymer Melts, Prague, CZECHOSLOVAKIA, July 1991.
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14. Mitsoulis, E., Luo, X.-L., *"Viscoelastic Effects in Coextrusion Flows of Polymer Melts"*, AIChE Annual Meeting, San Francisco, California, USA, November 1989.
13. Mitsoulis, E., Luo, X.-L., *"Numerical Simulation of Entry and Exit Flows Using the K-BKZ Model"*, 61st Annual Meeting of the Society of Rheology, Montreal, Quebec, CANADA, October 1989.
12. Mitsoulis, E., *"Some Experiences Using Software Packages in a Computer-Aided Design Course"*, 1989 Association of Professional Engineers of Ontario/University of Ottawa Engineering Society Student Conference, Ottawa, Ontario, CANADA, October 1989.
11. Mitsoulis, E., *"Some Experiences Using Software Packages in a Computer-Aided Design Course"*, 39th Canadian Chemical Engineering Conference, Hamilton, Ontario, CANADA, October 1989.
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9. Mitsoulis, E., Luo, X.-L., "Numerical Simulation of Entry and Exit Flows Using the *K-BKZ Model*", 6th International Workshop on Numerical Methods for Non-Newtonian Flow, Hindsø, DENMARK, June 1989.
8. Mitsoulis, E., "Streamline-Upwind/Petrov-Galerkin Finite Element Methods in Polymer Processing", 2nd Canadian-German Workshop on Chemical Engineering Mathematics, Bad Honnef, WEST GERMANY, May 1988.
7. Mitsoulis, E., Heng, F.L., "Die Design for Dual Wire Insulation", 4th Annual Meeting of the Polymer Processing Society, Orlando, Florida, USA, May 1988.
6. Mitsoulis, E., "Recent Advances in Wire-Coating Simulation", 3rd Annual Meeting of the Polymer Processing Society, Stuttgart, WEST GERMANY, April 1987.
5. Mitsoulis, E., "Fluid Flow and Heat Transfer in Wire Coating", 2nd Annual Meeting of the Polymer Processing Society, Montreal, Quebec, CANADA, April 1986.
4. Mitsoulis, E., Wagner, R., "Polymer Melt Flow inside Wire-Coating Dies: A Simulation Approach", 57th Annual Meeting of the Society of Rheology, Ann Arbor, Michigan, USA, October 1985.
3. Mitsoulis, E., "Extrudate Swell in Double-Layer Flows", 4th International Workshop on Numerical Methods for Non-Newtonian Flow, Spa, BELGIUM, June 1985.
2. Steward, F.R., Mitsoulis, E., "Some Characteristics of Liquid Pool Fires", Annual Meeting of the Canadian Section of the Combustion Institute, Kingston, Ontario, CANADA, May 1983.
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