

# Curriculum Vitae

professor Marc J. ASSAEL

FIChemE, CEng, PhD, MSc, DIC

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December 2018

## 1. GENERAL

Name & Surname : Marc J. ASSAEL  
Position : Professor of Thermophysical Properties  
- Director of Laboratory of Thermophysical Properties  
& Environmental Processes  
- Secretary of International Organizing Committee  
of European Thermophysical Properties Conferences (ECTP)  
- Secretary of International Association for Transport Properties  
(IATP)  
  
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Home Address : Vafopoulou 24, Thessaloniki 54646  
Date/Place of Birth : 5.8.1954 / Thessaloniki  
Military Service : 1980-1982 Hellenic Airforce

## 2. HONOURS

FIChemE Fellow of the Institution of Chemical Engineers  
CEng Charter Engineer

## 3. STUDIES

- Imperial College, U.K.  
1977 : B.Sc.(Eng) Chemical Engineering First Class Honours  
1977 : A.C.G.I. Chemical Engineering First Class Honours  
1978 : M.Sc.(Eng) Chemical Engineering Distinction  
1978 : D.I.C. Chemical Engineering Distinction  
1980 : Ph.D. Chemical Engineering -

## 4. LANGUAGES

- English 95% (Cambridge Proficiency)  
- French 40% (Certificat)  
- German 30%  
- Japanese 10% (Hiragana, Katakana, Kanji)

## 5. POSITIONS (Chemical Engineering Dept., AUTH)

1983 (12. 1) : Lecturer in Unit Operations & Applied Thermodynamics Group  
1984 (17. 5) : Tenure  
1986 ( 4.11) : Assistant Professor in Heat Transfer.  
1991 ( 2. 7) : Associate Professor in Thermophysical Properties.  
2001 ( 9. 5) : Professor in Thermophysical Properties

**6. POSITIONS (Outside Chemical Engineering Department., AUTH)**

- 2007 – 2011 : Adjunct Professor Jiaotong University, Xi'an, China  
 1998 : TEPCO Chair Visiting Professor Keio University, Tokyo, Japan  
 1985 - : Visiting Professor, (1-2 months) in the Universities  
 - Rostock University, Rostock, Germany.

**7. ACTIVITIES (International)**

- 1984 - : Member of Subcommittee on Transport Properties (STP)  
 of International Union of Pure & Applied Chemistry.  
 1990 - : Secretary of Subcommittee on Transport Properties (STP)  
 of International Union of Pure and Applied Chemistry.  
 2001 - : Secretary of International Association for Transport Properties (IATP)  
 1989 - : Founding Member of PROTECT  
 (PROPERTIES of fluids Tomorrow, Environmental Concern Today)  
 1989 - : Founding Member of Association of Transport Properties, France.  
 1992 - : Founding Member and first Chairman of Hellenic British Universities  
 Graduates Society  
 1990 - : Corporate Member of Institution of Chemical Engineers, U.K.  
 1990 - : Chartered Engineer of Engineering Council, U.K.  
 1980 - : Member of Hellenic Technical Chamber of Engineers.  
 1980 - : Member of Hellenic Chemical Engineering Association.  
 1998 - : Member of Chemical Engineering Committee in D.O.A.T.A.P. (D.I.K.A.T.S.A.)
- 1987 - : Reviewer of the following 60 scientific journals:  
 - Advances in Civil Engineering (? - Hindawi)  
 - Advances in Mechanical Engineering (? - Hindawi)  
 - AIChE J (? - AIChE)  
 - Applied Clay Sciences (7 - Elsevier)  
 - Applied Geochemistry (1 - Elsevier)  
 - Applied Thermal Engineering (3 - Elsevier)  
 - Chinese Journal of Chemical Engineering (1 - Elsevier)  
 - Critical Reviews in Solid State and Materials Sciences (? - Taylor & Francis)  
 - Current Nanoscience (1 - Bentham Science publishers)  
 - Current Physical Chemistry (1 - Bentham Science publishers)  
 - Energy & Fuels (4 - ACS)  
 - Experimental Thermal and Fluid Science (2 - Elsevier)  
 - EuroPhysics Letters (? - IOP)  
 - Fluid Phase Equilibria (36 - Elsevier)  
 - Fuel (7 - Elsevier)  
 - Fuel Processing Technology (1 - Elsevier)  
 - Heat and Mass Transfer (6 - Springer)  
 - Heat Transfer Engineering (? - Taylor and Francis)  
 - High Temperatures High Pressures (11 - Old City)  
 - IChemE J.: Part D. Education for Chemical Engineers (11 - Elsevier).  
 - Industrial & Engineering Chemistry Research (3 - ACS)  
 - Industrial Crops and Products (1 - Elsevier)  
 - International Journal of Applied Ceramic Technology (? - Wiley)  
 - International Journal of Environment and Sustainable Development (1 - InderScience)  
 - International Journal of Greenhouse Gas Control (1 - Elsevier)  
 - International Journal of Heat and Mass Transfer (14 - Elsevier)  
 - International Journal of Refrigeration (5 - Elsevier)  
 - International Journal of Sustainable Energy.(? - Taylor & Francis)  
 - International Journal of Thermal Sciences (14 - Elsevier)  
 - International Journal of Thermophysics (100 - Springer)  
 - ISRN Chemical Engineering (5 - Hindawi)  
 - ISRN Mechanical Engineering (1 - Hindawi)  
 - Journal of Chemical & Engineering Data (69 - ACS)  
 - Journal of Chemical Thermodynamics (20 - Elsevier)  
 - Journal of Enhanced Heat Transfer (2 - Beggel)  
 - Journal of Fuels (? - Hindawi)  
 - Journal of Heat Transfer (7 - ASME)  
 - Journal of Loss Prevention in the Process Industries (2 - Elsevier))

- Journal of Molecular Liquids (2 - Elsevier)
- Journal of Nanofluids (? - American Scientific)
- Journal of Nanomaterials (? - American Scientific)
- Journal of Physical and Chemical Reference Data (28 - AIP-NIST)
- Journal of Physics D: Applied Physics (9)
- Journal of Smart and Nano Materials (? - Taylor & Francis)
- Journal of Solution Chemistry (10 - Springer)
- Journal of the American Oil Chemists Society (1 - Thomson Reuters)
- Journal of the Chemical Society. Chemical Communications (? - RSC)
- Journal of the Chemical Society. Faraday Transactions I (? - RSC)
- Journal of the Chemical Society. Faraday Transactions II (? - RSC)
- Journal of the Chemical Society. Perkin Transactions II (? - RSC)
- Journal of the Iranian Chemical Society (1 - Springer)
- Journal of the Taiwan Institute of Chemical Engineers (1 - Elsevier)
- Journal of Thermal Science (1 - Springer)
- Journal of Petroleum Science and Engineering (26 - Elsevier)
- Journal of Physical and Chemical Reference Data (3 - AIP)
- Journal of Thermophysics and Heat Transfer (? - AIAA)
- Measurement Science and Technology (7 - IOP)
- Metrologia (? - IOP)
- Microfluidics and Nanofluidics (? - Springer)
- Nanoscience & Nanotechnology Asia (1 - Bentham Science)
- Physica A. Statistical Mechanics and its Applications (3 - Elsevier)
- Physics and Chemistry of Liquids (? - Taylor & Francis)
- Polymer Degradation and Stability (1 - Elsevier)
- Powder Technology (2 - Elsevier)
- Russian Journal of Physical Chemistry B (? - Springer)
- Science and Engineering of Composite Materials (1 - De Gruyter)
- The Journal of Chemical Physics (2 - AIP)
- The Journal of Physical Chemistry (1 - ACS)
- The Journal of Supercritical Fluids (5 - Elsevier)
- Thermal Science (1 - Vinca Inst. Nuclear Sci., Belgrade)
- Thermochemica Acta (11 - Elsevier)
- The Chemical Industry & Chemical Engineering Quarterly (? - Assoc.Ch.Eng.Serbia)
- The Open Chemical Engineering Journal (1 - Bentham)

1988 - : **Evaluator** for European Union in

- Stimulation Action.
- Science.
- Energy.
- Leonardo, Grundtvig. and Comenius.

2007 - : Evaluator for German Center for Research and Innovation (Centers of Excellency)

2009 - : Evaluator for Qatar National Research Fund

Evaluator for Romanian National Council for Innovation and Development

2010 - : Evaluator for Portuguese Foundation for Science and Technology (FCT)

2010 - : Evaluator for Scholarships, Greek National Scholarship Foundation.

2016 - : Evaluator for Research Council of Canada

2017 - : Evaluator for Energy in the Greek Call Research-Creat-Innovate

2018 - : National Science Center, of Poland

1995 - : **Member of the Editorial Board** of

- High Temperatures High Pressures (Old City Publishing, USA)
- IChemE J.: Part D. Education for Chemical Engineers (IChemE, UK)
- International Review of Chemical Engineering - Rapid Communications (Praise Worthy, IT)

2014 - : **Associate Editor**

- International Journal of Thermophysics (Springer, USA)
- IChemE J.: Part D. Education for Chemical Engineers (IChemE, UK)

**Greek National Delegate to**

- 2013 - today - COST – Ionic Fluids (CM1206 EL)
- 2011 - 2012 - EUREKA - High Level Group Coordinator (EU)
- 2005 - 2006 - European Strategy Forum for Research Infrastructures (ESFRI)
- 2006 - 2008 - European Federation of Chemical Engineers (EFCE) - Workgroup in Education
- 2002 - 2007 - International Association for the Properties of Water and Steam (IAPWS)

**8. ACTIVITIES (Chemical Engineering Dept., AUTH)**

- 2009 - : Vice-Chairman of Chemical Engineering Dept., AUTH (2 years)
- 1997 - : Vice-Chairman of Chemical Engineering Dept., AUTH (2 years)
- 1995 - : Chairman of Chemical Engineering Dept., AUTH (2 years)
- 1991 - : Vice-Chairman of Chemical Engineering Dept., AUTH (4 years)

**9. TEACHING EXPERIENCE**

Equivalent teaching of about 90 semesters. Subjects taught

- Unit Operations (3<sup>rd</sup> year)
- Environmental Mass Transfer (4<sup>th</sup> year)
- Thermophysical Properties (4<sup>th</sup> year, elective course)
- Numerical Methods (2<sup>nd</sup> year)
- Environmental Laboratory II (4<sup>th</sup> year, elective course)
- Risk Assessment (4<sup>th</sup> year, elective course)

Intensive courses taught

- Thermophysical Properties of Fluids, in Keio University, Japan
- Thermophysical Properties of Fluids, in Jiaotong University, Xi'an, China
- Risk Assessment, in Jiaotong University, Xi'an, China.
- Unit Operations in Jiaotong University, Xi'an, China.

Supervised 9 PhD and about 150 last-year diploma thesis.

Author of many educational books (see Appendix A, Section 4)

**10. CONFERENCE/MEETINGS ORGANIZATION**

As the vice-Chairman of the International Association for Transport Properties (IATP), one of my duties is the organization of its yearly Scientific Meeting. IATP is a non-profit grouping of scientists devoted to the advancement of the transport properties of materials. In particular, the association is engaged in the preparation of representations of the transport properties that are of value to engineering process design, and to the description of natural processes in the environment where international collaboration and agreement is specially significant.

IATP was formerly known as the Subcommittee on Transport Properties (STP) of the International Union of Pure and Applied Chemistry (1981 - 2001).

I have thus organized so far the following Meetings

- 1990 : STP Scientific Meeting, Thessaloniki, Greece
- 1991 : STP Scientific Meeting, Hambourg, Germany
- 1992 : STP Scientific Meeting, Rostock, Germany
- 1993 : STP Scientific Meeting, Lisbon, Portugal
- 1994 : STP Scientific Meeting, Boulder, Colorado, USA
- 1995 : STP Scientific Meeting, Guildford, UK
- 1996 : STP Scientific Meeting, Geirangen, Norway
- 1997 : STP Scientific Meeting, Boulder, Colorado, USA
- 1998 : STP Scientific Meeting, Amsterdam, The Netherlands
- 1999 : STP Scientific Meeting, Erlangen, Germany
- 2000 : STP Scientific Meeting, Boulder, Colorado, USA
- 2001 : 1<sup>st</sup> IATP Scientific Meeting, Chalkidiki, Greece

(Renaming to International Association for Transport Properties)

- 2002 : 2<sup>nd</sup> IATP Scientific Meeting, Imperial College, UK
- 2003 : 3<sup>rd</sup> IATP Scientific Meeting, Boulder, Colorado, USA
- 2004 : 4<sup>th</sup> IATP Scientific Meeting, Pau, France

- 2005 : 5<sup>th</sup> IATP Scientific Meeting, Bratislava, Slovakia
- 2006 : 6<sup>th</sup> IATP Scientific Meeting, Boulder, Colorado, USA
- 2007 : 7<sup>th</sup> IATP Scientific Meeting, Istanbul, Turkey
- 2008 : 8<sup>th</sup> IATP Scientific Meeting, Pau, France
- 2009 : 9<sup>th</sup> IATP Scientific Meeting, Boulder, Colorado, USA
- 2010 : 10<sup>th</sup> IATP Scientific Meeting, Santiago, Spain
- 2011 : 11<sup>th</sup> IATP Scientific Meeting, Thessaloniki, Greece
- 2012 : 12<sup>th</sup> IATP Scientific Meeting, Boulder, Colorado, USA
- 2013 : 13<sup>th</sup> IATP Scientific Meeting, Bremen, Germany
- 2014 : 14<sup>th</sup> IATP Scientific Meeting, Porto, Portugal
- 2015 : 15<sup>th</sup> IATP Scientific Meeting, Boulder, Colorado, USA
- 2016 : 16<sup>th</sup> IATP Scientific Meeting, London, U.K.
- 2017 : 17<sup>th</sup> IATP Scientific Meeting, Graz, Austria
- 2018 : 18<sup>th</sup> IATP Scientific Meeting, Boulder, Colorado, USA

I also took part:

- 1991 : Organizing Committee for NATO Advanced Research Workshop "*The Status & Future Developments in the Study of Transport Properties*", Porto Carras, Chalkidiki, Greece, May 29-31.
- 1997 : Organizing Committee of 1<sup>st</sup> Panhellenic Scientific Chemical Engineering Conference, Patras, Greece, May.
- 1999 : **Chairman** of the Organizing Committee of 2<sup>nd</sup> Panhellenic Scientific Chemical Engineering Conference, Thessaloniki, Greece, May.
- 1999 : Scientific Committee of 1<sup>st</sup> International IUPAC Workshop on "*Thermochemical, Thermodynamic and Transport Properties of Halogenated Hydrocarbons and Mixtures*", Piza, Italy, December.
- 2001 : Organizing Committee of 3<sup>rd</sup> Panhellenic Scientific Chemical Engineering Conference, Patra, Greece, May.
- 2001 : Scientific Committee of 2<sup>nd</sup> International IUPAC Workshop on "*Thermochemical, Thermodynamic and Transport Properties of Halogenated Hydrocarbons and Mixtures*", Paris, France, April.
- 2001 : Scientific Committee of 6<sup>th</sup> Asian Thermophysical Properties Conference, Guahati, Assam, India, October.
- 2002 : Organizing Committee of 16<sup>th</sup> European Thermophysical Properties Conference, London, UK, September.
- 2003 : Organizing Committee of 4<sup>th</sup> Panhellenic Scientific Chemical Engineering Conference, Patra, Greece, May
- 2005 : **Chairman** of the Organizing Committee of 5<sup>th</sup> Panhellenic Scientific Chemical Engineering Conference, Thessaloniki, Greece, May.
- 2005 : **Chairman** of the Organizing Committee of 2005 International Association for the Properties of Water & Steam Meeting, Santorini, Greece, July.
- 2005 : Organizing Committee of 17<sup>th</sup> European Thermophysical Properties Conference, Bratislava, Slovakia, September.
- 2007 : Organizing Committee of 6<sup>th</sup> Panhellenic Scientific Chemical Engineering Conference, Athens, Greece, May.
- 2009 : Organizing Committee of 7<sup>th</sup> Panhellenic Scientific Chemical Engineering Conference, Patra, Greece, June.
- 2011 : **Chairman** of the Organizing Committee of 8<sup>th</sup> 1<sup>st</sup> Panhellenic Scientific Chemical Engineering Conference, Thessaloniki, Greece, May.
- 2011 : **Chairman** of the Organizing Committee of 19<sup>th</sup> European Conference on Thermophysical Properties, Thessaloniki, Greece, August 28<sup>th</sup> – September 3<sup>rd</sup>.
- 2013 : Scientific Committee of 10<sup>th</sup> Asian Thermophysical Properties Conference, Jeju, Korea, September 28 – October 3<sup>rd</sup>.
- 2016 : Scientific Committee of 11<sup>th</sup> Asian Thermophysical Properties Conference, Yokohama, Japan, October 2 – 6.
- 2017 : International Organizing Committee, of 21<sup>st</sup> European Conference on Thermophysical Properties, Graz, Austria, September 3-8.

**11. RESEARCH**

In the area of measurement/prediction of thermophysical properties of fluids, melts and nanofluids, and in the area of measurement/prediction of thermophysical properties of solids and ceramics.

Standard Reference Correlations for thermal conductivity and viscosity of fluids covering vapor, liquid and critical ranges. Standard Reference Correlations for liquid metals.

Recent interests include the modelling of various environmental processes, like the 3-D FEM simulation of the dispersion of toxic gases in cities, and the modelling of car pollution etc., as well as the measurement of airborne particles and risk assessment of industrial complexes.

Third area of interest refers to the use of multimedia as a teaching tool in the education of engineers, unemployed engineers, army personnel, students, and pupils.

Published work includes (See Appendix A, Sections 1 - 4)

- Papers in International Scientific Journals	:	187
- Papers in International Conferences	:	164
- Books	:	9
- Chapters in Books	:	28

Citation Index (-12.2018) - Google Scholar	:	7,182
h-factor	:	42
Citation Index (-12.2018) – Web of Science	:	4,385
h-factor	:	34
Citation Index (-12.2018) - Scopus	:	4,662
h-factor	:	36

**12. RESEARCH FUNDING**

Number of research programs (Appendix A, Sect.5)	:	42
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For more information

**<http://transp.cheng.auth.gr>**

## Appendix A.

1. Publication List
2. Conferences
3. Books
4. Chapters in Books
5. Programs Funded

**1. Publication List**

- 1.1. Assael M.J., Wakeham W.A. and Kestin J., "Higher Order Approximation to the Thermal Conductivity of Monatomic Gas Mixtures", *Int. J. Thermophys.* **1**:7-32 (1980)  
DOI:
- 1.2. Assael M.J. and Wakeham W.A., "The Thermal Conductivity of Mixtures of Hydrogen with the Monatomic Gases", *Ber. Bunsenges. Phys. Chem.* **84**:840-848 (1980)  
DOI:
- 1.3. Assael M.J., Dix M., Lucas A. and Wakeham W.A., "Absolute Determination of the Thermal Conductivity of the Noble Gases and two of their Binary Mixtures as a Function of Density", *J. Chem. Soc., Faraday Trans. 1* **77**:439-464 (1981)  
DOI: 10.1039/f19817700439
- 1.4. Assael M.J. and Wakeham W.A., "Thermal Conductivity of Four Polyatomic Gases", *J. Chem. Soc., Faraday Trans. 1* **77**:697-707 (1981)  
DOI: 10.1039/f19817700697
- 1.5. Mendonca A.J.F., Nieto de Castro C.A., Assael M.J. and Wakeham W.A., "The Economic Advantages of Accurate Transport Property Data for Heat Transfer Equipment Design", *Rev. Port. Quim.* **23**:7-11 (1981)
- 1.6. Assael M.J. and Wakeham W.A., "Thermal Conductivity of Binary Gaseous Mixtures Containing Diatomic Components", *J. Chem. Soc., Faraday Trans. 1* **78**:185-195 (1982)  
DOI: 10.1039/f19827800185
- 1.7. Assael M.J., McCourt F.R., Maitland G.C., Mustafa M. and Wakeham W.A., "The Transport Properties of Polyatomic Gases", *High Temp. High Press.* **17**:291-302 (1985)  
DOI:
- 1.8. Magliotou M.M., Assael M.J., and Nychas S.G., "Local Heat Transfer Coefficients of a Horizontal Cylinder in a Gas-Solid Fluidized Bed", *Chem. Eng. Commun.* **40**:335-344 (1985)  
DOI: 10.1080/00986448608911706
- 1.9. Assael M.J. Mixafendi S., and Wakeham W.A., "The Viscosity and Thermal Conductivity of Hydrogen in the Limit of Zero-Density", *J. Phys. Chem. Ref. Data* **15**:1315-1322 (1986)  
DOI:
- 1.10. Zahariades N.A. and Assael M.J., "Heat Transfer Around a Horizontal Cylinder in Small Scale Fluidized Beds", *Chem. Eng. Comm.* **57**:317-328 (1987)  
DOI: 10.1080/00986448708960493
- 1.11. Assael M.J., Mixafendi S., and Wakeham W.A., "The Viscosity of Normal Deuterium in the Limit of Zero-Density", *J. Phys. Chem. Ref. Data* **16**:189-192 (1987)  
DOI:
- 1.12. Charitidou E., Dix M., Assael M.J., Nieto de Castro C.A., and Wakeham W.A., "A Computer-Controlled Instrument for the Measurement of the Thermal Conductivity of Liquids", *Int. J. Thermophys.* **8**:511-519 (1987)  
DOI: 10.1007/BF00503639

- 1.13. Assael M.J., Charitidou E., Nieto de Castro C.A., and Wakeham W.A., "The Thermal Conductivity of n-Hexane, n-Heptane and n-Decane by the Transient Hot-Wire Method", *Int. J. Thermophys.* **8**:663-670 (1987)  
DOI: 10.1007/BF00500786
- 1.14. Charitidou E., Molidou Ch., and Assael M.J., "The Thermal Conductivity and Viscosity of Benzene", *Int. J. Thermophys.* **9**:37-45 (1988)  
DOI: 10.1007/BF00503998
- 1.15. Assael M.J., Charitidou E., Georgiades G.P., and Wakeham W.A., "Absolute Measurement of the Thermal Conductivity of Electrically Conducting Liquids", *Ber. Bunsenges. Phys. Chem.* **92**:627-632 (1988)  
DOI:
- 1.16. Assael M.J., Charitidou E., and Avgoustiniatos S., "The Thermal Conductivity of Xylene Isomers in the Temperature Range 290-360 K", *Int. J. Thermophys.* **9**:501-510 (1988)  
DOI: 10.1007/BF00503149
- 1.17. Assael M.J., Charitidou E., and Nieto de Castro C.A., "Absolute Measurements of the Thermal Conductivity of Alcohols by the Transient Hot-Wire Technique", *Int. J. Thermophys.* **9**:813-824 (1988)  
DOI: 10.1007/BF00503247
- 1.18. Assael M.J., Charitidou E., and Wakeham W.A., "The Thermal Conductivity of Liquids. Prediction Based on a Group Contribution Scheme", *Int. J. Thermophys.* **10**:779-791 (1989)  
DOI: 10.1007/BF00514475
- 1.19. Assael M.J., Charitidou E., Avgoustiniatos S., and Wakeham W.A., "Absolute Measurements of the Thermal Conductivity of Mixtures of Alkene-Glycols with Water", *Int. J. Thermophys.* **10**:1127-1140 (1989)  
DOI: 10.1007/BF00500567
- 1.20. Assael M.J., Charitidou E., and Wakeham W.A., "Absolute Measurements of the Thermal Conductivity of Mixtures of Alcohols with Water", *Int. J. Thermophys.* **10**:793-803 (1989)  
DOI: 10.1007/BF00514476
- 1.21. Assael M.J., Charitidou E., Stassis J.Ch., and Wakeham W.A., "Absolute Measurements of the Thermal Conductivity of Some Aqueous Chloride Salt Solutions", *Ber. Bunsenges. Phys. Chem.* **8**:887-892 (1989)  
DOI:
- 1.22. Assael M.J., Ramires M.L.V., Nieto de Castro C.A., and Wakeham W.A., "Benzene. A Further Liquid Thermal Conductivity Standard", *J. Phys. Chem. Ref. Data.* **19**:113-117 (1990)  
DOI:
- 1.23. Assael M.J. and Charitidou E., "Absolute Measurement of the Thermal Conductivity of Alcohol+n-Hexane Mixtures", *Int. J. Thermophys.* **11**:1001-1009 (1990)  
DOI: 10.1007/BF00500555
- 1.24. Assael M.J., Millat J., Vesovic V., and Wakeham W.A., "The Thermal Conductivity of Methane and Tetrafluoromethane in the Limit of Zero-Density", *J. Phys. Chem. Ref. Data* **19**:1137-1147 (1990)  
DOI:
- 1.25. Assael M.J., Dymond J.H., and Tselekidou V., "Correlation of High-Pressure Thermal Conductivity, Viscosity and Diffusion Coefficients for n-Alkanes", *Int. J. Thermophys.* **11**:863-873 (1990)  
DOI: 10.1007/BF00503579
- 1.26. Assael M.J., Charitidou E., and Karagiannidis L., "The Thermal Conductivity of n-Hexadecane+Ethanol and n-Decane+Butanol Mixtures", *Int. J. Thermophys.* **12**:491-500 (1991)  
DOI: 10.1007/BF00502364
- 1.27. Assael M.J., Papadaki M., Dix M., Richardson S.M., and Wakeham W.A., "An Absolute Vibrating-Wire Viscometer for Liquids at High Pressures", *Int. J. Thermophys.* **12**:231-244 (1991)  
DOI: 10.1007/BF00500749



- 1.28. Al-Harbi D.K., Assael M.J., Karagiannidis L., and Wakeham W.A., "Thermal Conductivity of Iso-Pentane in the Temperature Range 307-355 K at Pressures up to 0.4 GPa", *Int. J. Thermophys.* **12**:17-25 (1991)  
DOI: 10.1007/BF00506119
- 1.29. Assael M.J., Papadaki M., and Wakeham W.A., "Measurements of the Viscosity of Benzene, Toluene and m-Xylene at Pressures up to 80 MPa", *Int. J. Thermophys.* **12**:449-457 (1991)  
DOI: 10.1007/BF00502361
- 1.30. Assael M.J. and Papadaki M., "Measurements of the Viscosity of n-Heptane, n-Nonane and n-Undecane at Pressures up to 80 MPa", *Int. J. Thermophys.* **12**:801-810 (1991)  
DOI: 10.1007/BF00502407
- 1.31. Assael M.J., Karagiannidis L., and Papadaki M., "The Thermal Conductivity of Some Alkyl Ethers and Alkanones", *Int. J. Thermophys.* **12**:937-942 (1991)  
DOI: 10.1007/BF00502417
- 1.32. Assael M.J., Karagiannidis L., and Papadaki M., "Measurements of the Viscosity of n-Heptane+n-Undecane Mixtures at Pressures up to 75 MPa", *Int. J. Thermophys.* **12**:811-820 (1991)  
DOI: 10.1007/BF00502408
- 1.33. Assael M.J., Papadaki M., Richardson S.M., Oliveira C., and Wakeham W.A., "Vibrating-Wire Viscometry on Liquid Hydrocarbons at High Pressure", *High Temp. High Press.* **23**:561-568 (1991).  
DOI:
- 1.34. Assael M.J., Charitidou E., Dymond J.H., and Papadaki M., "Viscosity and Thermal Conductivity of Binary n-Heptane+n-Alkane Mixtures", *Int. J. Thermophys.* **13**:237-249 (1992)  
DOI: 10.1007/BF00504434
- 1.35. Assael M.J., Dymond J.H., Papadaki M., and Patterson P.M., "Correlation and Prediction of Dense Fluid Transport Coefficients - I. n-Alkanes", *Int. J. Thermophys.* **13**:269-281 (1992)  
DOI: 10.1007/BF00504436
- 1.36. Assael M.J., Karagiannidis L., Richardson S.M., and Wakeham W.A., "Compression Work Using the Transient Hot-Wire Method", *Int. J. Thermophys.* **13**:223-235 (1992)  
DOI: 10.1007/BF00504433
- 1.37. Assael M.J., Dymond J.H., and Papadaki M., "Viscosity Coefficients of Binary n-Heptane+n-Alkane Mixtures", *Fluid Phase Equilib.* **75**:287-297 (1992).  
DOI: 10.1016/0378-3812(92)87024-H
- 1.38. Assael M.J. and Wakeham W.A., "Vibrating-Wire Viscometry on Liquids at High Pressure", *Fluid Phase Equilib.* **75**:269-285 (1992).  
DOI: 10.1016/0378-3812(92)87023-G
- 1.39. Assael M.J., Dymond J.H., Papadaki M., and Patterson P.M., "Correlation and Prediction of Dense Fluid Transport Coefficients - II. Simple Molecular Fluids", *Fluid Phase Equilib.* **75**:245-255 (1992).  
DOI:
- 1.40. Assael M.J., Dymond J.H., Papadaki M., and Patterson P.M., "Correlation and Prediction of Dense Fluid Transport Coefficients - III. n-Alkanes Mixtures", *Int. J. Thermophys.* **13**:659-669 (1992)  
DOI: 10.1007/BF00501947
- 1.41. Assael M.J., Dymond J.H., and Patterson P.M., "Correlation and Prediction of Dense Fluid Transport Coefficients - IV. A Note on Diffusion", *Int. J. Thermophys.* **13**:729-733 (1992)  
DOI: 10.1007/BF00501953
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**5. Programs Funded**

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| 5.1.  | <b>"The Thermal Conductivity of Electrically Conducting Fluids"</b> ,<br>(with Lisbon University, Portugal),<br>NATO/0311/1985, 2 years   | € 6,000   |
| 5.2.  | <b>"The Development of an Instrument for the Measurement of the Thermal Conductivity of Electrically Conducting Liquids"</b> ,<br>(with Imperial College, UK),<br>EEC/Stimulation Action/ST2J-0030/1986, 7/86-2/89, 2 years | € 10,300  |
| 5.3.  | <b>"Prediction of the Thermophysical Properties of Fluids"</b> ,<br>(with Rostock University, Germany),<br>GSRT/15296/1988, 3 months  | € 1,500   |
| 5.4.  | <b>"Measurement of the Viscosity of Fluids"</b> ,<br>(with Rostock University, Germany),<br>GSRT/6249/1989, 3 months  | € 1,500   |
| 5.5.  | <b>"Measurement of the Thermal Conductivity of Refrigerants"</b> ,<br>(with Imperial College, UK),<br>British Council/MJA/12/1989, 3 years  | € 2,500   |
| 5.6.  | <b>" Measurement and Correlation of the Thermal Conductivity and Viscosity of Paraffins and their Mixtures "</b> ,<br>(with Rostock University, Germany),<br>GSRT/15615/1989, 2 years                                       | € 2,000   |
| 5.7.  | <b>"Accurate Theoretically Based Correlations of Thermophysical Properties of Fluids"</b> ,<br>(with Glasgow University, UK),<br>NATO/CRG900001/1990, 2 years   | € 9,000   |
| 5.8.  | <b>"The Status &amp; Future Developments in the Study of Transport Properties"</b> ,<br>(with Imperial College, UK, Waterloo University, Canada),<br>NATO/ARW900771/1990, Research Workshop                                 | € 10,000  |
| 5.9   | <b>"The Thermal Conductivity of High Temperature Melts"</b> ,<br>(with Imperial College, UK, Amsterdam University, Holland,<br>Lisbon University, Portugal),<br>EEC/BCR/MAT1-CT/930028/1993, 4 years                        | € 600,000 |
| 5.10. | <b>"Measurements of the Transport Properties of New Refrigerant Fluids"</b> ,<br>(with Imperial College, UK),<br>British Council+GGET/9835/24.8.1993, 2 years   | € 9,000   |
| 5.11. | <b>"Correlation of the Transport Properties of Fluids"</b> ,<br>(with Glasgow University, UK),<br>British Council/1996, 2 years   | € 2,000   |
| 5.12. | <b>"Viscosity and Diffusion Coefficient of Supercritical Mixtures"</b> ,<br>(with Imperial College, UK),<br>NATO/CRG 950551/1997, 2 years   | € 7,000   |
| 5.13. | <b>"Towards a Common Curriculum of Study at the three Hellenic Departments of Chemical Engineering"</b> ,<br>(with Athens & Patras Chemical Engineering Depts.)<br>1997 EPEAEK 3.1.a, 3 years                               | € 900,000 |
| 5.14. | <b>"Establishment of Standard Test Methods for the Measurement of the Thermal Conductivity and Thermal Diffusivity of Insulating Materials"</b> ,<br>(with Nitra University, Slovakia),<br>GSRT/5450/26.10.1998, 2 years    | € 21,000  |
| 5.15. | <b>"Measurement of the Viscosity of Natural Gas"</b> ,<br>(with Imperial College, UK),<br>British Council/1999, 3 months  | € 2,000   |

- 5.16. **"Simulation, Design and Construction of Refrigeration Cycle Pilot Plant for Environmentally-Friendly Refrigerants"**,  
(with ELVIKLIMA Ltd.),  
PAVE/GSRT/30.9.1999/99BE393, 2 years € 150,000
- 5.17. **"Development of Educational Material with the Use of Multimedia in the Areas of Environment and Energy Management Systems and Risk Analysis Assessment"**,  
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INTERREG II/62/1.7.1999, 1 year € 420,000
- 5.18. **"Design & Construction of a Transient Hot-Wire Instrument for Fluids"**,  
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Fortum/2000, 4 months € 60,000
- 5.19. **"Extension of a Transient Hot-Wire Instrument for Measurements in Solids"**,  
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- 5.20. **"Multimedia: Hydromotion in Pro-Industrial Era"**,  
Laograf.Museum/2002, 9/02-3/03, 6 months € 14,000
- 5.21. **"Design & Construction of Transient Hot-Wire Cells for Fluids"**,  
NPL/2002, 2 months € 12,000
- 5.22. **"Modelling of Spreading of Chemicals from Stacks"**,  
TITAN Cement SA, 2002, 6 months € 3,000
- 5.23. **"Modelling of Spreading of Chemical Substances"**,  
(with Athens Chemical Engineering Dept. and SIGMA Consultants Ltd.),  
HG/2/2003, 11/01-9/02, 9 months € 350,000
- 5.24. **"Networking in Developing a Bachelor Degree Curriculum for Chemical Engineering"**  
(with NTUA, UP, UCTM, Udine, Madgenburg, Paris Nord, Kaunas,  
Hamburg, Leeds, Belfast)  
Erasmus/Socrates DISS 2003-2004 € 50,000
- 5.25. **"Chemical Engineering Studies"**  
(with Aege Univesity)  
Erasmus/Socrates 2004-2005 € 5,000
- 5.26. **"Measuegment of Thermal Conductivity of Industrial Oils"**  
M&I Materials, 2004, 1 month € 2,600
- 5.27. **"Measurement of the Viscosity of Natural Gas under Pressure"**  
GassCo, 2005, 3 months € 22,250
- 5.28. **"Measuegment of Thermal Conductivity of Industrial Oils"**  
M&I Materials, 2005, 0.5 month € 1,300
- 5.29. **"INCO: Integrating and Strengthening the European Research Area - Specific Measures in Support of International Corporation WEB-ENV"**  
Subcontractor to AL-GIS, 11/05-12/07, 2 years € 7,000
- 5.30. **"Development of Transborder Networks and Transfer of Know-How in Pollution Reduction in the Source and Risk Assessment of Industrial Plants"**  
(with SIGMA, and Univ. Kardjali, and Univ. Blagoegrav)  
Min. of Env., 10/05-6/07, 16 months € 120,000
- 5.31. **"Certification of Prowess in Computing Skills of Educators"**  
Min. of Edu., 11/2005-4/2009, 4 years € 30,000
- 5.32. **"Use of Interactive Multimedia as a Teaching Tool: The Consequences of Fires, Explosions and Dispersion of Toxic Gases in Humans and Materials"**  
(as part of AUTH team)  
ERMHS, GSRT, Min. od Develop., 2006, 1 week € 1,000

- 5.33 **"A Critical Evaluation of the Viscosity and Density of Molten Iron and Aluminium"**  
(with Southampton Univ., NPL, Alabama Univ.)  
IUPAC, 2007, 1 year € 9,000
- 5.34 **"A Critical Evaluation of the Viscosity and Density of Molten Copper and Tin"**  
(with Southampton Univ., NPL, Univ. Alabama, Jiaotong Univ.)  
IUPAC, 2009, 1 year € 6,600
- 5.35 **"Study and Simulation of Spreading of Toxic Gases in the Area of Municipality of Amyntaion Arising from Possible Deposition from PPC"**  
Εταιρία Υετός, 2008, 3 months € 3,000
- 5.36 **"A Critical Evaluation of the Viscosity and Density of Molten Bismuth, Nickel, Lead, Silver and Antimony"**  
(with Southampton Univ., NPL, Alabama Univ. and others)  
IUPAC, 2009, 1 year € 9,000
- 5.37 **"Development of a New Correlation for the Viscosity and Thermal Conductivity of Water"**  
(with National Institute of Science and Technology USA)  
NIST, 2008, 4 years € 3,000
- 5.38 **"Certification of Prowess in Computing Skills of Educators"**  
Min. of Edu., 2009-20011, 2 years € 10.000
- 5.39 **"Development of a portable commercial transient hot-wire instrument"**  
(with Xi'an Jiatong University, P.R. China)  
Min. Of Edu., 2012-2014, 3 years € 800.000
- 5.40 **"Transport Properties of Fluids: Advances in Transport Properties - Experimental Thermodynamics IX"**  
(with Imperial College UK, and Schlumberger)  
IUPAC 2011-051-1-100, 2012-2014, 2 years € 9.000
- 5.41 **"Reference Correlations for the Thermal Conductivity and Viscosity of Fluids over Extended Range of Conditions (vapor, liquid and supercritical region)"**  
(with National Institute of Standards and Technology USA)  
IUPAC 2012-040-1-100, 2013-2014, 2 years € 7.000
- 5.42 **"International standard for viscosity at temperatures up to 473 K and pressures below 200 MPa"**  
(with Schlumberger, Imperial College UK, University of Santiago de Compostela, Spain, and Atomic Energy Institute POLATOM, Poland)  
IUPAC 2013-??????, 2013-2014, 2 years € 7.000