

ÖZGEÇMİŞ VE ESERLER LİSTESİ

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Ünvanı : **Prof. Dr.**
Üniversite : Işık Üniversitesi
Bölümü : Makine Mühendisliği Bölümü
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Öğrenim Durumu

Derece	Bölüm / Program	Lise / Üniversite	Yıl
Lise	Genel	Diyarbakır Maarif Koleji	1972
Lisans	Makina Fakültesi	İstanbul Teknik Üniversitesi	1976
Yüksek Lisans	Physics	Lehigh University (A.B.D.)	1979
Doktora	Engineering/Fluid Mechanics and Thermodynamics Group	Brown University (A.B.D)	1983

Yüksek Lisans Tezi: The Hilbert Expansion to the Boltzmann Equation for Steady Flow

(Lehigh University, Physics Dept, 1979)

Tez Danışmanı: Prof. Dr. James A. McLennan

Doktora Tezi: Two-Dimensional Expansion Flows on Walls with Nonequilibrium Condensation

(Brown University, Division of Engineering, 1983)

Tez Danışmanı: Prof. Dr. Joseph H. Clarke

Akademik Görevler:

Görevi	Görev Yeri	Yıl
Araştırma Görevlisi	Lehigh University, Bethlehem PA	1977-1979
Araştırma Görevlisi	Brown University, Providence RI	1979-1983
Yedek Subay	Türk Silahlı Kuvvetleri	1983-1984
Yard.Doc,Dr.	Boğaziçi Üniversitesi, Matematik Bölümü	1984- 1990
Doç. Dr.	Bilkent Üniversitesi, Matematik Bölümü	1990-1993
Prof. Dr.	İstanbul Üniversitesi, Makine Mühendisliği Bölümü	1994 – 1999
Uzman Araştırmacı	TÜBİTAK Temel Bilimler Araştırma Enstitüsü	1999- 2000
Prof. Dr.	İstanbul Teknik Üniversitesi, Uçak ve Uzay Bilimleri Fakültesi, Uzay Mühendisliği Bölümü	2000- 2009
Prof. Dr.	Işık Üniversitesi, Makine Mühendisliği Bölümü	2009- devam ediyor

Diğer Üniversiteçi Görevler:

Görevi	Görev Yeri	Yıl
Uçak ve Uzay Bilimleri Fakültesi Senatörü	İstanbul Teknik Üniversitesi	2002-2009
Uçak ve Uzay Bilimleri Fakülte Kurulu Üyesi	İstanbul Teknik Üniversitesi	2001-2009
Uçak ve Uzay Bilimleri Fakülte Yönetim Kurulu Üyesi	İstanbul Teknik Üniversitesi	2002-2005
Anabilim Dalı Başkanı	İTÜ Fen Bilimleri Enstitüsü Disiplinlerarası Uçak ve Uzay Mühendisliği Programı	2007- 2008

Yurtdışı Geçici Görevler:

Görevi	Görev Yeri	Tarih
Misafir Profesör	Institut für Strömungslehre und Strömungsmaschinen, Universitaet Karlsruhe (TH), Almanya	1.09.1991-30.10.1992, 1.10.1993-31.12.1993, 1.07.1997-15.10.1997, 1.07.1998-30.09.1998
Misafir Profesör	Max Planck Institut für Strömungsforschung, Göttingen, Almanya	1.11.1992-28.02.1993, 1.07.1993-30.09.1993
Misafir Profesör	Department of Mechanical Engineering, The City College of New York, CUNY, NY, A.B.D.	1.01.1994-30.06.1994
Misafir Profesör	Institute of Thermomechanics, Academy of Sciences of the Czech Republic, Prague	1.07.1994-1.09.1994, 15.07.2001- 15.09.2001, 10.07.2006 - 9.09.2006
Misafir Profesör	Department of Applied Mathematics and Theoretical Physics, University of Cambridge, İngiltere	15.08.1995-30.09.1995, 1.10.1998-15.11.1998
Misafir Profesör	Department of Applied Physics, Eindhoven University of Technology, Hollanda	1.10.1995-31.12.1995, 1.09.1996-15.10.1996, 15.10.1999-15.01.2000
Misafir Profesör	Department of Mechanical Engineering California Institute of Technology, Pasadena, A.B.D.	1.07.2000-30.09.2000
Misafir Profesör	Department of Mechanical Engineering University of Tokyo, Japonya	1.07.2002-30.09.2002
Misafir Profesör	Department of Mechanical Engineering, Worcester Polytechnic Institute (WPI), A.B.D.	14.07.2003-14.09.2003, 12.07.2004-15.09.2004, 12.07.2005-15.09.2005
Misafir Profesör	Lehrstuhl für Fluidmechanik, Fachgebiet Gasdynamik Technische Universität München, Almanya	25.06.2007-24.09.2007, 30.06.2008-29.09.2008, 29.06.2009-14.08.2009
Misafir Profesör	Graduate School of Engineering Hokkaido University, Sapporo, Japonya	29.08.2010-12.09.2010

Yönettiği Yüksek Lisans Tezleri:

Baha Zafer, Second Order Asymptotics for Propeller Noise and Application to Helicopter Rotor Blades, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2005.

Sarper Arün, Numerical Simulation of Nonlinear Wave Propagation in Bubbly Liquids, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2006.

A. Levent Şen, Asymptotic Predictions and Full Numerical Solution of Helicopter Rotor Noise in the Far Field, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2008.

Yönettiđi Doktora Tezleri:

Şenay Pasinliođlu, Kabarcıklı Sıvılarda Kavıtasyonlu Daimi Lüle Akıřlarının Kararlılıđı ve Soliton Oluřumu, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2009.

Zafer Bařkaya, Sanki-Bir-Boyutlu Lülelerde Daimi Olmayan Kavıtasyonlu Kabarcıklı Akıřların Sayısal Benzetimi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2011.

Baha Zafer, Prediction Methods for Helicopter Rotor Blade Noise and Flow-Sound Interaction for Nozzle Flow, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2012.

Yürütücüsü Olduđu Projeler :

A. TÜBA (Türkiye Bilimler Akademisi) Destekli Projeler :

- Kabarcıklar için Homojen Çekirdekleşme Kuramı. (2002-2003) Telif hakkı olarak TÜBA'nın öngördüđu destek alınmıřtır.
- Hidrodinamik Kavıtasyon. (1998-2003) Telif hakkı olarak TÜBA'nın öngördüđu destek alınmıřtır.
- Yođuşmadan Kaynaklanan řok Dalgalarının Kararlılıđı (1999-2000) Telif hakkı olarak TÜBA'nın öngördüđu destek alınmıřtır.
- Faz Geçiřleri Halinde Prandtl-Meyer Akıřları (1995-1998) Telif hakkı olarak TÜBA'nın öngördüđu destek alınmıřtır.

B. İTÜ Destekli Arařtırma Projeleri :

- Daimi Olmayan Kavıtasyonlu Akıřlar (23 Temmuz 2001 – 23 Temmuz 2003) Proje No. 1874. Bütçesi : 5 Milyar 650 Milyon TL.

C. TÜBİTAK 1001 Kodlu Arařtırma Projesi (105M035 No.lu Proje):

- Sıvılařtırılmıř Yakıtlı Türbopompaların Tasarımı ve Kavıtasyon Optimizasyonu (1 Eylül 2005 -1 Mart 2008) Proje No. 105M035 TÜBİTAK MAG , Bütçesi :147 640,- YTL.

Bilimsel Kuruluşlara Üyelikler :

1. American Physical Society (2007-devam ediyor).
2. TÜBA (Türkiye Bilimler Akademisi) Assosiye Üye (1995-2003)
3. EUROMECH (European Mechanics Society) , 1998-devam ediyor.
4. Teorik ve Uygulamalı Mekanik Türk Milli Komitesi ,1987-devam ediyor.
5. Türk Matematik Derneği (1986-devam ediyor).

Ödüller :

Ödülün Adı	Alındığı Kuruluş	Yılı
Sedat Simavi Fen Bilimleri Ödülü	Sedat Simavi Vakfı	1984
TÜBİTAK TEŞVİK ÖDÜLÜ	TÜBİTAK Başkanlığı	1991
TÜBA (Türkiye Bilimler Akademisi) Asosiye Üyeliği	TÜBA Genel Kurulu	1995

Burslar :

- **Alexander von Humboldt Research Fellowship**
(1.07.1991-28.02.1993, 1.07.1993-30.09.1993)
- **CAS (Czech Academy of Sciences) Award for Research**
(1.07.1994-1.09.1994, 15.07.2001- 15.09.2001, 10.07.2006 - 9.09.2006,
15.08.2011-3.09.2011)
- **The Royal Society Fellowship (European Science Exchange Program)**
(15.08.1995-30.09.1995)
- **J. M.Burgers Center Research Professor Award**
(1.10.1995-31.12.1995)
- **Dutch NWO Research Award**
(1.09.1996-15.10.1996, 15.10.1999-15.01.2000)
- **DFG Grant Stipend for Research**
(1.07.1997-15.10.1997, 1.07.1998-30.09.1998, 1.07.1999-14.10.1999,
29.06.2009-14.08.2009)
- **University of Cambridge DAMTP Fund for Research**
(1.10.1998-15.11.1998)

- **NSF Support for Research at Caltech**
(1.07.2000-30.09.2000)
- **Foreign Research Fellowship of the Intelligent Modeling Laboratory of the University of Tokyo**
(1.07.2002-30.09.2002)
- **Research Stipend from WPI (Worcester Polytechnic Institute)**
(14.07.2003-14.09.2003, 12.07.2004-15.09.2004, 12.07.2005-15.09.2005)
- **DAAD (Deutsche Akademischer Austausch Dienst e.V.) Fellowship**
(25.06.2007-24.09.2007)
- **TÜBİTAK-DFG Project Collaboration Grant**
(30.06.2008-29.09.2008)
- **DFG Project Collaboration Grant**
(29.06.2009-14.08.2009)

Düzenlediği Konferanslar :

- **EUROMECH Colloquium 376** (Co-Chair with D.G.Crighton)
Waves in Two-Phase Flows, 27-30 April 1998, Istanbul.
- **11. İstatistiksel Fizik Günleri** (Program Yürütücüsü)
24-26 Haziran 2004, İstanbul Teknik Üniversitesi.
- **12. İstatistiksel Fizik Günleri** (Program Yürütücüsü)
30 Haziran - 2 Temmuz 2005, İstanbul Teknik Üniversitesi.
- **IUTAM Symposium on Recent Advances in Multiphase Flows**
(Co-Chair with A.Acrivos) 11-14 June 2007, Istanbul.

Hakemlik Yaptığı Uluslararası Dergiler:

- Journal of Fluid Mechanics
- Physics of Fluids
- ASME Journal of Fluids Engineering
- International Journal of Multiphase Flow
- Heat and Mass Transfer
- Fluid Dynamics Research
- Journal of Porous Media

- Shock Waves
- Engineering Computations
- European Journal of Physics B
- TÜBİTAK Journal of Physics

Dergi Editörlüğü:

- ARI (The Bulletin of Istanbul Technical University)
yayın kurulu üyesi (2003- devam ediyor)
- İTÜ Dergisi/C, Fen Bilimleri dergisi yayın yönetmeni (2005-2009)
- TWMS (Turkic World Mathematical Society) Journal of Applied and Engineering Mathematics yayın kurulu üyesi (2011- devam ediyor)

Yayın Atıfları (SCI Web of Science):

218 (1 Haziran 2012 itibarıyla)

YAYIN LİSTESİ

A. ÇAĞRILI KİTAP BÖLÜMLERİ:

- C.F.Delale, G.H.Schnerr and M.E.H. van Dongen,
Condensation Discontinuities and Condensation Induced Shock
Waves. *Shock Waves Science and Technology Reference Library.*
Vol. 1 Multiphase Flows (ed. M.E.H.van Dongen) pp.187-230,
Springer,Berlin, Heidelberg, February 2007 ISBN 978-3-540-35845-9
- C.F.Delale, Ş.Pasinlioğlu and Z. Başkaya, Mathematical
Theory and Numerical Simulations of Bubbly Cavitating Nozzle
Flows. *Supercavitation: Advances and Perspectives.* (ed. Igor
Nesteruk), pp.1-25, Springer, Berlin, Heidelberg, 2012 ISBN 978-3-
642-23655- 6 (DOI:10.1007/978-3-642-23656-3)

B. ULUSLARARASI HAKEMLİ DERGİLER

1. C.F.Delale, Lower Bound Estimate for Droplet Size in Two-Phase Dispersed Flow, *ASME Journal of Heat Transfer* **102** (1980) 501-507.
2. C.F.Delale, The Hilbert Expansion to the Boltzmann Equation for Steady Flow, *Journal of Statistical Physics* **28** (1982) 589-602.
3. C.F.Delale, The H Theorem and Irreversible Thermodynamics, *Journal of Statistical Physics* **37** (1984) 451-463.
4. C.F.Delale, Irreversible Thermodynamics of Kinetic Processes in Multiple Gas Mixtures, *Journal of Chemical Physics* **83**(6) (1985) 3062-3068.
5. C.F.Delale, The Hilbert Theory of Transport Phenomena in Multiple Gas Mixtures, *Journal of Chemical Physics* **83**(6) (1985) 3069-3076.
6. C.F.Delale, The Generalized H Theorem in the Hilbert Theory, *Journal of Chemical Physics* **84**(2) (1986) 971-975.
7. J.H.Clarke and C.F.Delale, Nozzle Flows with Nonequilibrium Condensation, *Physics of Fluids* **29**(5) (1986) 1398-1413.
8. J.H.Clarke and C.F.Delale, Supercritical Shocks in Nozzle Flows with Nonequilibrium Condensation, *Physics of Fluids* **29**(5) (1986) 1414-1418.
9. J.H.Clarke and C.F.Delale, Expansion Flows on Walls with Nonequilibrium Condensation, *Quarterly of Applied Mathematics* Vol. **XLVI** No. 1 (1988) 121-143.
10. C.F.Delale, An Exactly Solvable Two-Fold Cayley Tree Model, *International Journal of Modern Physics B* Vol. **3** No. 10 (1989) 1523-1537.
11. C.F.Delale, On the Transition from Ferromagnetism to Antiferromagnetism on Two-Fold Cayley Tree, *Il Nuovo Cimento* Vol. **14D** (1992) 261-270.
12. C.F.Delale, G.H.Schnerr and J.Zierrep, The Mathematical Theory of Thermal Choking in Nozzle Flows, *Z Angew Math Phys (ZAMP, Journal of Applied Mathematics and Physics)* Vol. **44** (1993) 943-976.
13. C.F.Delale, G.H.Schnerr and J.Zierrep, Asymptotic Solution of Transonic Nozzle Flows with Homogeneous Condensation. I.Subcritical Flows, *Physics of Fluids A* **5** (1993) 2969-2981.
14. C.F.Delale, G.H.Schnerr and J.Zierrep, Asymptotic Solution of Transonic Nozzle Flows with Homogeneous Condensation. II.Supercritical Flows, *Physics of Fluids A* **5** (1993) 2982-2995.

15. C.F.Delale and G.E.A.Meier, A Semi-Phenomenological Droplet Model of Homogeneous Nucleation from the Vapor Phase, *Journal of Chemical Physics* **98** (1993) 9850-9858.
16. C.F.Delale and G.H.Schnerr, Near Critical Transonic Nozzle Flows with Homogeneous Condensation, *Acta Mechanica Suppl.* **4** (1994) 125-131.
17. C.F.Delale and G.E.A.Meier, Real Gas Effects in Thermally Choked Nozzle Flows, *Z Angew Math Phys (ZAMP, Journal of Applied Mathematics and Physics)* **45** (1994) 245-257.
18. C.F.Delale, G.H.Schnerr and J.Zierep, Asymptotic Solution of Shock Tube Flows with Homogeneous Condensation, *Journal of Fluid Mechanics* **287** (1995) 93-118.
19. C.F.Delale, G.H.Schnerr and F.Marsik, Theory of Embedded Shock Formation in Rarefaction Waves by Homogeneous Condensation, *European Journal of Mechanics B / Fluids* **15** (1) (1996) 81-102.
20. C.F.Delale and G.E.A.Meier, A Comparison of Nucleation Theories by the Asymptotic Solution of Condensing Nozzle Flows, *Acta Mechanica* **117** (1996) 23-32.
21. C.F.Delale and G.H.Schnerr, Transient Effects of Nucleation in Steady and Unsteady Condensing Flows, *International Journal of Multiphase Flow* **22** (4) (1996) 767-781.
22. C.F.Delale, M.J.E.H.Muitjens and M.E.H.van Dongen, Asymptotic Solution and Numerical Simulation of Homogeneous Condensation in Expansion Cloud Chambers, *Journal of Chemical Physics* **105** (19) (1996) 8804-8821.
23. C.F.Delale and D.G.Crighton, Prandtl-Meyer Flows with Homogeneous Condensation. Part 1. Subcritical Flows, *Journal of Fluid Mechanics* **359** (1998) 23-47.
24. C.F.Delale and M.E.H. van Dongen, Thermal Choking in Two-Dimensional Expansion Flows, *Z Angew Math Phys (ZAMP, Journal of Applied Mathematics and Physics)* **49** (1998) 515-537.
25. C.F.Delale, G.H.Schnerr and J.Sauer, Quasi-one-dimensional steady-state Cavitating Nozzle Flows, *Journal of Fluid Mechanics* **427** (2001) 167-204.
26. C.F.Delale and D.G.Crighton, Prandtl-Meyer Flows with Homogeneous Condensation. Part 2. Supercritical Flows, *Journal of Fluid Mechanics* **430** (2001) 231-265.
27. C.F.Delale, G.Lamanna and M.E.H. van Dongen, On the Stability of Stationary Shock Waves in Nozzle Flows with Homogeneous Condensation, *Physics of Fluids* **13** (2001) 2706-2719.

28. C.F.Delale, Thermal Damping in Cavitating Nozzle Flows, *ASME Journal of Fluids Engineering*, **124** (2002) 969-976.
29. C.F.Delale, J.Hruby and F.Marsik, Homogeneous Bubble Nucleation in Liquids: The Classical Theory Revisited, *Journal of Chemical Physics*, **118** (2003) 792-806.
30. F.Marsik, C.F.Delale and M.Sedlar, Condensation and Cavitation in Water and Water Mixtures, *Archives of Thermodynamics*, **24**(1) (2003) 3-16.
31. C.F.Delale and M.Tunç, A Bubble Fission Model for Collapsing Cavitation Bubbles, *Physics of Fluids*, **16** (2004) 4200-4203.
32. C.F.Delale, K.Okita and Y.Matsumoto, Steady-State Cavitating Nozzle Flows with Nucleation, *ASME Journal of Fluids Engineering*, **127**, 770-777 (2005).
33. C.F.Delale, S.Nas and G.Tryggvason, Direct Numerical Simulation of Shock Propagation in Bubbly Liquids, *Physics of Fluids*, **17**, 121705-1-4 (2005).
34. C.F. Delale and G. Tryggvason, Shock structure in Bubbly Liquids: Comparison of Direct Numerical Simulations and Model Equations, *Shock Waves*, **17** (2008) 433-440 (DOI 10.1007/s00193-008-0126-1).
35. A.Acrivos and C.F.Delale, Report on IUTAM Symposium on Recent Advances in Multiphase Flows: Numerical and Experimental (11-14 June 2007, Istanbul, Turkey), *Physics of Fluids*, **20** (2008) 040501-1-11.
36. C.F.Delale, G.Tryggvason and S.Nas, Cylindrical Bubble Dynamics: Exact and DNS Results, *Physics of Fluids*, **20** (2008) 040903-1-10.
37. Ş. Pasinlioğlu, C.F. Delale and G.H.Schnerr, On the Temporal Stability of Steady-State Quasi-One-Dimensional Cavitating Bubbly Flow Solutions, *IMA Journal of Applied Mathematics*, **74** (2009) 230-249 (doi:10.1093/imamat/hxn036).
38. C.F. Delale, B.Zafer and A.R.Aslan, Computational and Asymptotic Methods in Aeroacoustics with Applications, *TWMS (TurkicWorld Mathematical Society) Journal of Applied and Engineering Mathematics*, **1** (2011) 1-26 .
39. C.F. Delale, B.Zafer and A.R.Aslan, A Refinement of Asymptotic Predictions and Full Numerical Solution of Helicopter Rotor Noise in the Far Field, *International Journal of Aeroacoustics*, **11**(3&4) (2012) 521-530.

C. YAYINLANMIŞ KONFERANS BİLDİRİLERİ

1. C.F.Delale, (invited) An Asymptotic Predictive Method for Gas Dynamics with Nonequilibrium Condensation, *Proceedings of IUTAM Symposium on "Adiabatic Waves in Liquid-Vapor Systems"*, 28 August-1 September 1989, Göttingen, (eds.) Meier,G.E.A and Thompson,P.A., (Springer-Verlag, Berlin and Heidelberg, 1990) 143-157.
2. C.F.Delale, (invited, in Turkish) Irreversibility, Mechanics and Thermodynamics, *Proceedings of the Vth National Congress of Mechanics*, 7-11 September 1987, Kirazlıyayla, Bursa, (eds.) M.Dikmen and E.İnan (İTU İnşaat Fakültesi, İstanbul, 1990) 268-278.
3. C.F.Delale, (in Turkish) Gas Dynamics with Nonequilibrium Condensation, *Proceedings of the VIth National Congress of Mechanics*, 11-15 September 1989, Kirazlıyayla, Bursa, (eds.) M.Dikmen and E.İnan (İTU İnşaat Fakültesi, İstanbul, 1990) 268-278.
4. C.F.Delale, (invited, in Turkish) The Hilbert Solution of the Boltzmann Equation *Proceedings of Third Symposium on Differential Equations*, 26-28 October 1989, Trakya University, Edirne, (eds.) M.Dikmen and O. Çelebi (Boğaziçi Üniversitesi Matbaası, İstanbul, 1990) 33-44.
5. G.H.Schnerr and C.F.Delale, On Thermally Choked Nozzle Flows, *Proceedings of 2. ISAIF International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows*, Prague, July 12-15, 1993, (eds.) R.Dvorak and J. Kvapilova, Vol. 2, Society of Czech Mathematicians and Physicists, 485-490 (1993).
6. C.F.Delale, G.H.Schnerr and J.Zierrep, Shock Tube Flows with Homogeneous Condensation, *Proceedings of 2nd International Conference on Fluid Mechanics (ICFM-II)*, Beijing, July 7-10, 1993. (ed.) Z. Fenggan, Peking University Press, 293-298 (1993).
7. C.F.Delale and G.H.Schnerr, On the Onset of Condensation in Rarefaction Waves in Shock Tubes, *Shock Waves Marseille III, Shock Waves in Condensed Matter and Heterogeneous Media (Proceedings of the 19th International Symposium on Shock Waves, Marseille, July 26-30, 1993)* (eds.) R.Brun, L.Z.Dumitrescu. Springer-Verlag, 131-134 (1995).
8. C.F.Delale and G.H.Schnerr, (invited) Theoretical Investigation of Condensation Dynamics in Shock Tubes, *Fluid Mechanics and its Applications Vol. 31 (Proceedings of IUTAM Symposium "Waves in Gas-Liquid and Gas-Particle Two-Phase Systems", Kyoto, May 9-13, 1994.)* (eds.) S.Morioka and L. van Wijngaarden, Kluwer Academic Publishers, 365-375 (1995).

9. C.F.Delale, F.Marsik and G.H.Schnerr, On the Formation of Embedded Shock Waves in Rarefaction Waves by Homogeneous Condensation, *Proceedings of the 20th International Symposium on Shock Waves Vol.II*, Pasadena, California, USA, July 23-28, 1995 (eds.) B.Sturtevant, J.E.Shepherd & H.G.Hornung, World Scientific, Singapore, 1237-1242 (1996).
10. C.F.Delale, (invited) Shock Formation in Flows with Nucleation and Condensation, *Proceedings of Metastable Behavior of Fluids and Critical Phenomena*, Prague, October 30-31, 1996 (ed.) F.Marsik, Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 7-24 (1996).
11. C.F.Delale and G.H.Schnerr, Asymptotic Solution of Flows with Nucleation and Condensation}, *Proceedings of the Second International Conference on "Asymptotics in Mechanics AIM'96 "*, Saint Petersburg State Marine Technical University, Saint Petersburg, Russia, October 13-16, 1996 (eds.) Ali H. Nayfeh and Kirill V. Rozhdestvensky, Saint Petersburg, 81-88 (1996).
12. C.F.Delale and G.H.Schnerr, Quasi-one-dimensional Cavitating Nozzle Flows. *Proceedings of Third International Conference on Multiphase Flow (CD ROM)* 615-620, June 8-12, 1998, Lyon, France (eds.) J. Bataille, A. Joia (1998).
13. C.F.Delale, Continuum Modelling of Flows with Nucleation and Condensation, *Proceedings of Continuum Models and Discrete Systems 9 (CMD59)*, Istanbul, 29 June-3 July 1998, (eds.) E. Inan and K.Z. Markov, World Scientific Publishing Co., pp. 14-21 (1998).
14. C.F.Delale, Thermal Damping in Cavitating Nozzle Flows, *Proceedings of the Fourth International Symposium on Cavitation*, Pasadena, California, USA, June 19-23, 2001 (ed.) C.E. Brennen (2001) (online at <http://cav2001.library.caltech.edu>).
15. F.Marsik, C.F.Delale and M.Sedlar, (Keynote Lecture) Condensation and Cavitation in Water and Water Mixtures, *Proceedings of HEAT 2002, the Third International Conference on Transport Phenomena in Multiphase Systems*, Kielce, Poland, June 24-27, 2002, pp. 61-68.
16. C.F. Delale, J.Hruby and F. Marsik, The Classical Theory of Homogeneous Bubble Nucleation Revisited, *Fifth International Symposium on Cavitation*, Osaka, Japan, November 1-4, 2003. Paper No.: Cav03-GS-1-002 (CD ROM and online at <http://flow.me.es.osaka-u.ac.jp/cav2003/>).
17. M.Tunç and C.F. Delale, Energy Dissipation due to Fission of Cavitating Bubbles, *Fifth International Symposium on Cavitation*, Osaka, Japan, November 1-4, 2003. Paper No : Cav03-GS-2-003 (CD ROM and online at <http://flow.me.es.osaka-u.ac.jp/cav2003/>).

- 18.** C.F. Delale, K. Okita and Y. Matsumoto , Steady-State Cavitating Nozzle Flows with Nucleation, *Fifth International Symposium on Cavitation*, Osaka, Japan, November 1-4, 2003. *Paper No.:* Cav03-GS-4-001 (CD ROM and online at <http://flow.me.es.osaka-u.ac.jp/cav2003/>).
- 19.** C.F. Delale, (invited) A Cavitating Bubbly Flow Model with Bubble/Bubble Interactions, Thermal Damping and Bubble Fission, in *Proceedings of Second International Summer Scientific School on High Speed Hydrodynamics*, Cheboksary, Russia , June 27-July 3, 2004, (ed.) A. Terentiev (2005) pp. 65-72.
- 20.** C.F. Delale, S. Nas and G. Tryggvason, (invited) "Direct Numerical Simulations of Shock Propagation in Bubbly Liquids" *IUTAM Symposium on Computational Approaches to Disperse Multiphase Flow*, Argonne National Laboratory, USA, 4-7 October 2004 (Fluid Mechanics and its Applications Kluwer-Springer series, 2006, pp. 323-330, eds. S. Balachander and A. Prosperetti, pp. 323-330).
- 21.** C.F. Delale and G. Tryggvason, Shock structure in bubbly liquids: Comparison of Direct Numerical Simulations and Model Equations, *CAV2006 Sixth International Symposium on Cavitation Paper No. : 94*, 11-15 September 2006, Wageningen, The Netherlands (CD ROM, ed. G. Kuiper and online at <http://www.cav2006.com>).
- 22.** C.F. Delale, G.H. Schnerr and S. Pasinlioglu, Model Evolution Equations for Unsteady Cavitating Nozzle Flows and Their Applications, *CAV2006 Sixth International Symposium on Cavitation Paper No. : 112*, 11-15 September 2006, Wageningen, The Netherlands (CD ROM, ed. G. Kuiper and online at <http://www.cav2006.com>).
- 23.** C.F. Delale, G.H. Schnerr and S. Pasinlioglu, On the Temporal Stability of Steady-State Cavitating Nozzle Flow Solutions, *ICMF2007 Sixth International Symposium on Multiphase Flows Paper No. : 112*, 11-15 July 2007, Leipzig, Germany (CD ROM, ed. M. Sommerfeld and online at <http://www.icmf2007.com>).
- 24.** C.F. Delale, Z. Başkaya, S.J. Schmidt and G.H. Schnerr, Unsteady Bubbly Cavitating Nozzle Flows, *CAV2009 Seventh International Symposium on Cavitation Paper No. : 18*, 17-22 August 2009, Ann Arbor, Michigan, USA (USB, ed. S. Ceccio).
- 25.** C.F. Delale, Z. Başkaya and S.J. Schmidt, Non-Barotropic Models of Cavitation and Their Applications, *ICMF2010 Seventh International Conference on Multiphase Flow Paper No. : DelaleBS-ICMF2010*, 30 May-4 June 2010, Tampa, Florida, USA (USB, eds. J.S. Curtis and S. Balachander).
- 26.** C.F. Delale, Z. Başkaya, Ş. Pasinlioglu, M. Şen and E. Ayder, A Quasi-One Dimensional Bubbly Cavitating Flow Model and Comparison with Experiments. *ETC9 Ninth European Turbomachinery Conference, Paper No. 300, ETC9*, 21-25 March 2011, Istanbul, Turkey (CD ROM, ed. M. Şen).

27. C.F. Delale, On the Fundamental Equations of Two-Dimensional Bubbly Cavitating Flows, *WIMRC Third International Cavitation Forum*, 3 May-4 July 2011, University of Warwick, UK (USB, ed. S.Li).