

## CURRICULUM VITAE

**Name Family Name** : **Can Fuat DELALE**

**Title** : **Professor**

**Affiliation** : Işık University

**Department** : Mechanical Engineering

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### Education

Degree	Program	University	Year
BS	Mechanical Engineering	Istanbul Technical University	1977
MS	Physics	Lehigh University (USA)	1979
PhD	Engineering/Fluid Mechanics and Thermodynamics Group	Brown University (USA)	1983

**Title of MS Thesis:** The Hilbert Expansion to the Boltzmann Equation for Steady Flow  
(Lehigh University, Physics Dept, 1979)

Supervisor: Prof. Dr. James A. McLennan

**Title of PhD Thesis:** Two-Dimensional Expansion Flows on Walls with Nonequilibrium  
Condensation (Brown University, Division of Engineering, 1983)

Supervisor: Prof. Dr. Joseph H. Clarke

### Academic Positions:

<b>Title</b>	<b>Affiliation</b>	<b>Year</b>
Research Assistant	Lehigh University, Bethlehem PA	1977-1979
Research Assistant	Brown University, Providence RI	1979-1983
Assistant and Associate Professor	Boğaziçi University Department of Mathematics	1984- 1990
Associate Professor	Bilkent University (Ankara) Department of Mathematics	1990-1993
Full Professor	Istanbul University Department of Mechanical Engineering	1994 –1999
Senior Scientist	TÜBİTAK Research Institute for Basic Sciences (Feza Gürsey Institute), Istanbul	1999- 2000
Full Professor	Istanbul Technical University Faculty of Aeronautics and Astronautics	2000-2009
Full Professor	Işık University, Faculty of Engineering Department of Mechanical Engineering	2009-present

### Visiting Positions :

Position	Affiliation	Date
Visiting Professor	Institut für Strömungslehre und Strömungsmaschinen, Universitaet Karlsruhe (TH), Germany	1.09.1991-30.10.1992, 1.10.1993-31.12.1993, 1.07.1997-15.10.1997, 1.07.1998-30.09.1998
Visiting Professor	Max Planck Institut für Strömungsforschung, Göttingen, Germany	1.11.1992-28.02.1993, 1.07.1993-30.09.1993
Visiting Professor	Department of Mechanical Engineering, The City College of New York, CUNY, NY, USA	1.01.1994-30.06.1994
Visiting Professor	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
Visiting Professor	Department of Applied Mathematics and Theoretical Physics, University of Cambridge, England	15.08.1995-30.09.1995, 1.10.1998-15.11.1998
Visiting Professor	Department of Applied Physics, Eindhoven University of Technology, The Netherlands	1.10.1995-31.12.1995, 1.09.1996-15.10.1996, 15.10.1999-15.01.2000
Visiting Professor	Department of Mechanical Engineering California Institute of Technology, Pasadena, USA	1.07.2000-30.09.2000
Visiting Professor	Department of Mechanical Engineering University of Tokyo, Japan	1.07.2002-30.09.2002
Visiting Professor	Department of Mechanical Engineering, Worcester Polytechnic Institute (WPI), USA.	14.07.2003-14.09.2003, 12.07.2004-15.09.2004, 12.07.2005-15.09.2005
Visiting Professor	Lehrstuhl für Fluidmechanik, Fachgebiet Gasdynamik Technische Universität München, Germany	25.06.2007-24.09.2007, 30.06.2008-29.09.2008, 29.06.2009-14.08.2009

## **Theses Supervised**

### **Master Theses:**

**Baha Zafer**, Second Order Asymptotics for Propeller Noise and Application to Helicopter Rotor Blades, Istanbul Technical University, Institute of Science, 2005.

**Sarper Arün**, Numerical Simulation of Nonlinear Wave Propagation in Bubbly Liquids, Istanbul Technical University, Institute of Science, 2006.

**A. Levent Şen**, Asymptotic Predictions and Full Numerical Solution of Helicopter Rotor Noise in the Far Field, Istanbul Technical University, Institute of Science, 2008.

### **PhD Theses:**

**Şenay Pasinlioğlu**, Stability of Steady-State Cavitating Nozzle Flows and Soliton Formation in Bubbly Liquids, Istanbul Technical University, Institute of Science, 2009.

**Zafer Başkaya**, Numerical Simulation of Quasi-One-Dimensional Bubbly Cavitating Nozzle Flows, Istanbul Technical University, Institute of Science, 2011.

**Baha Zafer**, Prediction Methods for Helicopter Rotor Blade Noise and Flow-Sound Interaction for Nozzle Flow, Istanbul Technical University, Institute of Science, 2012.

### **Membership :**

1. American Physical Society (2007-present).
2. TÜBA (Turkish Academy of Sciences) Associate Member (1995-2003)
3. EUROMECH (European Mechanics Society) , 1998-present.
4. Turkish National Committee on Theoretical and Applied Mechanics ,1987-present.
5. Turkish Mathematical Society (1986-present).

**Prizes :**

Name of Prize	Presenting Foundation	Year
Sedat Simavi Science Prize	Sedat Simavi Foundation	1984
TÜBİTAK Young Scientist Prize	TÜBİTAK (The Technological and Scientific Research Council of Turkey)	1991
Turkish Academy of Sciences (TÜBA) Associate Membership	Turkish Academy of Sciences (TÜBA)	1995

**Fellowships and Research Awards :**

- **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)
- **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 (Deutscher Akademischer Austausch Dienst e.V.) Fellowship**  
(25.06.2007-24.09.2007)
- **TÜBİTAK-DFG Project Collaboration Grant**  
(30.06.2008-29.09.2008)

### **Conference Organization :**

- **EUROMECH Colloquium 376** (Co-Chair with D.G.Crighton)  
Waves in Two-Phase Flows, 27-30 April 1998, Istanbul.
- **11th Statistical Physics Days** (Chairperson)  
24-26 June 2004, Istanbul Technical University, Istanbul.
- **12th Statistical Physics Days** (Chairperson)  
30 June - 2 July 2005, Istanbul Technical University, Istanbul.
- **IUTAM Symposium on Recent Advances in Multiphase Flows**  
(Co-Chair with A.Acrivos) 11-14 June 2007, Istanbul.

### **Referee for Journals:**

- Journal of Fluid Mechanics
- Physics of Fluids
- ASME Journal of Fluids Engineering
- International Journal of Multiphase Flow
- Heat Mass Transfer
- Fluid Dynamics Research
- Journal of Porous Media
- Shock Waves
- Engineering Computations
- European Journal of Physics B

## Journal Editorship:

- ARI (The Bulletin of Istanbul Technical University)  
Associate Editor (2003- present)
- ITU Journal of Basic Sciences C (İTÜ Dergisi/C, Fen Bilimleri )  
Editor (2005-2009)
- TWMS (Turkic World Mathematical Society) Journal of Applied and Engineering Mathematics Associate Editor (2011- present)

## PUBLICATIONS

### A. INVITED BOOK CHAPTER:

- 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,  
February 2007 ISBN 3540358455
- 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. JOURNAL ARTICLES

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.Zierep, 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.Zierep, 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.Zierep, 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 in 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 (Turkish World 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. CONFERENCE PROCEEDINGS**

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, Istanbul, 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, Istanbul, 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, Istanbul, 1990) 33-44.

5. G.H.Schnerr and C.F.Delale, On Thermally Choked Nozzle Flows, *Proceedings of 2. ISAIIF 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 20<sup>th</sup> 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.
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 (CD ROM, 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. Pasinlioğlu, 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).