

## ÖZGEÇMİŞ (CANFUAD DELALE)

1. Adı Soyadı : Canfuad DELALE
2. Doğum Tarihi : 29.06.1954
3. Unvanı : Profesör Dr.
4. Öğrenim Durumu : Doktora
5. Çalıştığı Kurum : MEF Üniversitesi

Derece	Alan	Üniversite	Yıl
Lisans	Makine Mühendisliği	İstanbul Teknik Üniversitesi	1976
Y. Lisans	Fizik	Lehigh Üniversitesi, ABD	1979
Doktora	Mühendislik/Akışkanlar Mekaniği ve Termodinamik Grubu	Brown Üniversitesi, ABD	1983

### 5. Akademik Unvanlar

- Yardımcı Doçentlik Tarihi : 1984  
Doçentlik Tarihi : 1987  
Profesörlük Tarihi : 1994

### 6. Yönetilen Yüksek Lisans ve Doktora Tezleri

#### 6.1. 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.

#### 6.2. Doktora Tezleri

**Şenay Pasinlioğlu**, Kabarcıklı Sıvılarda Kaviteasyonlu Daimi Lüle Akışlarının Kararlılığı ve Soliton Oluşumu, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2009.

**Zafer Başkaya**, Sanki-Bir-Boyutlu Lülelerde Daimi Olmayan Kaviteasyonlu Kabarcıklı Akışların 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.

## 7. Yayınlar

### 7.1. Uluslararası hakemli dergilerde yayımlanan makaleler (SCI,SSCI,Arts and Humanities)

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.Zierrep, 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. C.F.Delale and M.Tunç, A Bubble Fission Model for Collapsing Cavitation Bubbles, *Physics of Fluids*, **16** (2004) 4200-4203.
31. C.F.Delale, K.Okita and Y.Matsumoto, Steady-state Cavitating Nozzle Flows with Nucleation, *ASME Journal of Fluids Engineering*, **127**, 770-777 (2005).
32. 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).
33. 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).

34. 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.
35. C.F.Delale, G.Tryggvason and S.Nas, Cylindrical Bubble Dynamics: Exact and DNS Results, *Physics of Fluids*, **20** (2008) 040903-1-10.
36. 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).
37. 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 (doi:10.1260/1475-472X.11.3-4.521).
38. B.Zafer and C.F. Delale, A Novel Nonreflecting Boundary Condition for Unsteady Flow, *International Journal for Numerical Methods in Fluids* **74** (2014) 59-72 (doi:10.1002/fld.3840, 2013).
39. C.F. Delale, Ş. Pasinlioğlu, Z. Başkaya and G. H. Schnerr, Semi-analytical Solution of Unsteady Quasi-one-dimensional Cavitating Nozzle Flows, *Journal of Engineering Mathematics*, **86** (2014) 49-70 (doi: 10.1007/s10665-013-9645-6).
40. C.F. Delale and Ş. Pasinlioğlu, First Iterative Solution of Thermal Behavior of Acoustic Cavitation Bubbles in the Uniform Pressure Approximation, *Journal of Physics: Conference Series*, **656** (2015) 012016 (doi:10.1088/1742-6596/656/1/012016).

## 7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

1. F.Marsik, C.F.Delale and M.Sedlar, Condensation and Cavitation in Water and Water Mixtures, *Archives of Thermodynamics*, **24**(1) (2003) 3-16.
2. 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 .

## 7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

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. 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).
3. C.F.Delale, G.H.Schnerr and J.Zierp, 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).

4. 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).
5. 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).
6. 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).
7. 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).
8. 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).
9. 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).
10. C.F.Delale, Continuum Modelling of Flows with Nucleation and Condensation, *Proceedings of Continuum Models and Discrete Systems 9 (CMDS9)*, Istanbul, 29 June-3 July 1998, (eds.) E. Inan and K.Z. Markov, World Scientific Publishing Co., pp. 14-21 (1998).
11. 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>).
12. 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.
13. 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/>).
14. 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/>).

15. 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/>).
16. 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.
17. 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).
18. 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>).
19. 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> ).
20. 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> ).
21. 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).
22. 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).
23. 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).
24. C.F. Delale, On the Fundamental Equations of Two-Dimensional Bubbly Cavitating Flows, *WIMRC Third International Cavitation Forum*, 4-6 July 2011, University of Warwick, UK (USB, ed. S.Li).
25. C.F. Delale, A Semi-analytical Solution of Unsteady Bubbly Cavitating Nozzle Flows, *Proceedings of International Workshop on Hydrodynamics of Moving Objects*, pp.33-42, 23-30 April 2012, Kiev, Ukraine (ed. O. Limarchenko).

26. C.F. Delale, Ş. Pasinlioğlu and P. Zima, A Criterion for the Occurrence of Bubble Fission and its Modelling, *Proceedings of Eighth International Symposium on Cavitation (CAV2012)*, pp.78-82, 13-16 August 2012, Singapore (CD ROM, eds. C.D. Ohl, E. Klaseboer, S.W. Ohl, S.W. Gong and B.C. Khoo) <http://cav2012.sg/proceedings/index.html>

#### 7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler

1. **C.F.Delale** (Editor) Bubble Dynamics and Shock Waves (*Shock Waves Science and Technology Reference Library 8*) Springer, Berlin, Heidelberg, 2013  
ISBN 978-3-642-34296-7

2. **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

3. **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)

4. **C.F.Delale**, G.H.Schnerr and Ş. Pasinlioğlu, Shocks in Quasi-One-Dimensional Bubbly Cavitating Nozzle Flows. *Bubble Dynamics and Shock Waves (Shock Wave Science and Technology Reference Library 8)*, (ed. C.F. Delale) pp.208-230, Springer, Berlin, Heidelberg, 2013 ISBN 978-3-642-34296-7

#### 7.5. Ulusal hakemli dergilerde yayınlanan makaleler

##### 7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

1. C.F.Delale, Tersinmezlik, Mekanik ve Termodinamik, V. *Ulusal Mekanik Kongresi*, 7-11 Eylül 1987, Kirazlıyayla, Bursa, (editörler) M.Dikmen and E.İnan (İTÜ İnşaat Fakültesi, İstanbul, 1990) .

2. C.F.Delale, Yoğuşma Halinde Gaz Dinamiği, VI. *Ulusal Mekanik Kongresi*, 11-15 Eylül 1989, Kirazlıyayla, Bursa, (editörler) M.Dikmen and E.İnan (İTÜ İnşaat Fakültesi, İstanbul, 1990) 268-278.

3. C.F.Delale, Boltzmann Denklemine Hilbert Çözümü, 3. *Diferansiyel Denklemler Sempozyumu*, 26-28 Ekim 1989, Trakya Üniversitesi, Edirne, (editörler) M.Dikmen ve O. Çelebi (Boğaziçi Üniversitesi Matbaası, İstanbul, 1990) 33-44.

##### 7.7. Diğer yayınlar

## 8. Projeler

### A. TÜBA (Türkiye Bilimler Akademisi) Destekli Projeler :

- Kabarcıklar için Homojen Çekirdekleşme Kuramı. (2002-2003) Telif hakkı olarak TÜBA'nın öngördüğü destek alınmıştır.
- Hidrodinamik Kaviteasyon. (1998-2003) Telif hakkı olarak TÜBA'nın öngördüğü destek alınmıştır.
- Yoğuşmadan Kaynaklanan Şok Dalgalarının Kararlılığı (1999-2000) Telif hakkı olarak TÜBA'nın öngördüğü destek alınmıştır.
- Faz Geçişleri Halinde Prandtl-Meyer Akışları (1995-1998) Telif hakkı olarak TÜBA'nın öngördüğü destek alınmıştır.

### B. İTÜ Destekli Araştırma Projeleri :

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

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

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

## 9. İdari 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
Mühendislik Fakültesi Fakülte Kurulu Üyesi	İşık Üniversitesi	2012-2014
Mühendislik Fakültesi Senatörü	MEF Üniversitesi	2014-devam ediyor
Mühendislik Fakültesi Fakülte Yönetim Kurulu Üyesi	MEF Üniversitesi	2015-devam ediyor
Mühendislik Fakültesi Makine Mühendisliği Bölüm Başkanı	MEF Üniversitesi	2014-devam ediyor

## 10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

1. Bilim Akademisi Derneği (2013 - devam ediyor).
2. American Physical Society (2007-devam ediyor).
3. TÜBA (Türkiye Bilimler Akademisi) Assosiye Üye (1995-2003)
4. EUROMECH (European Mechanics Society) , 1998-devam ediyor.
5. Teorik ve Uygulamalı Mekanik Türk Milli Komitesi ,1987-devam ediyor.
6. Türk Matematik Derneği (1986-devam ediyor).

## 11. Ödüller

Ödülün Adı	Alındığı Kuruluş	Yılı
SEDAT SİMAVİ FEN BİLİMLERİ ÖDÜLÜ	Sedat Simavi Vakfı	1984
TÜBİTAK TEŞVİK ÖDÜLÜ	TÜBİTAK Başkanlığı	1991
TÜBA (Türkiye Bilimler Akademisi) Asosiye Üyeliği	TÜBA Genel Kurulu	1995
BA (Bilim Akademisi) Asli Üyeliği	BA Genel Kurulu	2013

## 12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz (MEF ÜNİVERSİTESİ'NDE)

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2014-2015	<b>Güz</b>	Calculus I	3		36
	<b>İlkbahar</b>	Calculus II	3		32
2015 -2016	<b>Güz</b>	Calculus I	3		39
		Calculus II	3		23
		Differential Equations	3		8
	<b>İlkbahar</b>	Calculus II	3		72

**Not:** Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir.