

## Oksan N.L. CETINER-YILDIRIM

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Akatlar, Istanbul 34335, TURKEY

**e-mail:** [cetiner@itu.edu.tr](mailto:cetiner@itu.edu.tr)

**Date of birth:** June 7, 1969



**Education:** **Ph.D. in Mechanical Engineering, 1999**  
(Experimental Fluid Dynamics)  
Thesis: "Flow Structure and Loading Due to an Oscillating Cylinder in Steady Current"  
Lehigh University, Bethlehem, Pennsylvania, U.S.A.

**M.Sc. in Aeronautical Engineering, 1995**  
(Computational Fluid Dynamics)  
Thesis: "Vortex-Induced Oscillations of an Elastically Mounted Circular Cylinder"  
Istanbul Technical University, Istanbul, TURKEY

**B.Sc. in Aeronautical Engineering, 1992**  
(Computational Fluid Dynamics)  
Thesis: "Effect of Trailing Edge Geometry on Vortex Shedding from a Bluff Body Discrete Vortex Method"  
Istanbul Technical University, Istanbul, TURKEY

**Area of Interest:** Flow-Induced Vibrations, Flow-Structure Interactions, PIV (Particle Image Velocimetry), Measurement Systems

**Research Topics:** Oscillating bluff bodies and airfoils, drag reduction by polymer additives, aerodynamics of wind turbines, shallow water flows, free-surface flows, measurement systems

### **Experience:**

2013-Present Professor, Istanbul Technical University, TURKEY  
Department of Astronautical Engineering

2008-2013 Associate Professor, Istanbul Technical University, TURKEY  
Department of Astronautical Engineering

Summer 2004 Visiting Scholar, Fluid Mechanics Laboratories, Lehigh University, U.S.A.

|              |  |
|--------------|--|
| Winter 2006  | Visiting the facilities and attendance to a short course on helicopter wind tunnel tests, TsAGI-Central Aerodynamic Institute, Russian Federation  |
| 2002-2006    | Assistant Director, ITU Trisonic Research Center (TAM), TURKEY   |
| 2002-2013    | Graduate Program Coordinator, Aerospace Engineering in Advanced Technologies, Istanbul Technical University, TURKEY  |
| 2002-2003    | Advisor to the Dean, Faculty of Aeronautics and Astronautics, Istanbul Technical University, TURKEY<br>Worked especially on the accreditation of departments of Aeronautics and Astronautics for ABET EC2000.  |
| 2001-2002    | Vice-Dean, Faculty of Aeronautics and Astronautics, Istanbul Technical University, TURKEY  |
| October 2000 | Simultaneously translated from French to Turkish a seminar of NATO-RTO on "Introduction to Quality Assurance in Aerospace Industry", held on October, 9-13, 2000, in Erciyes University, Kayseri, TURKEY.  |
| Summer 2000  | Visiting Scholar, Fluid Mechanics Laboratories, Lehigh University, U.S.A.  |
| 1999-2008    | Assistant Professor, Istanbul Technical University, TURKEY<br>Department of Astronautical Engineering  |
| 1999-2001    | Assistant Director, ITU Trisonic Research Center (TAM), TURKEY   |
| 1994-1999    | Research Assistant, Istanbul Technical University, TURKEY<br>Department of Aeronautical Engineering<br>(September 1995-February 1999 on leave of absence for Ph.D.studies)<br>Worked on a CFD code based on Discrete Vortex Method and implemented elastic response of the body<br>One of five research assistants responsible for the maintenance of student computer labs  |
| 1995-1999    | Research Assistant, Lehigh University, U.S.A.<br>Department of Mechanical Engineering, Fluid Mechanics Laboratories<br>Research Assistant on the Office of Naval Research Grant, "Nonlinear Wave Development and Interaction with Structures"<br>Conducted research and developed/implemented the first version of orthogonal space-time PIV imaging to investigate three-dimensionalities in unstable and turbulent shear flows.<br><br>This research consisted of:<br>Particle Image Velocimetry (PIV, laser based high resolution velocity-field measurements), strain gage-based force measurements coupled with simultaneous PIV-based flow field measurements, digital equipment control and PC-based data acquisition, various two and three-dimensional data analysis techniques including auto and cross correlations, and animation of time sequence PIV images. |
| Spring 1998  | Teaching Assistant, Lehigh University, U.S.A.<br>Responsible for lab equipment, instruction, and grading of senior fluid mechanics lab.  |
| Summer 1991  | Stagiaire in Von Karman Institute for Fluid Dynamics, BELGIUM<br>Worked on a CFD code to investigate supersonic and hypersonic conical flows   |

Summer 1990

Practical Training in Turkish Airlines, TURKEY  
Istanbul Atatürk Airport

Trained in various departments such as specific machine shops (i.e. hydraulic systems, aircraft structure etc.) and engineering offices

**Ph.D. Thesis Supervised:**

Fenercioglu, I., “*Experimental Investigation of Flow Structures around an Oscillating Airfoil in Steady Current*”, Istanbul Technical University, 2010.

**M.Sc. Theses Supervised:**

Özkan, M., “*PIV Measurements in the Wake Flow of an Ogive Cylinder*”, Istanbul Technical University, 2003.

Sarıtaş, M., “*A PIV Study of Rotor Blade Tip Vortices*”, Istanbul Technical University, 2004.

Sayın, A., “*Determination of Transonic Flow Properties of ITU Trisonic Wind Tunnel*”, Istanbul Technical University, 2004.

Tınar, E., “*Self-Induced Pitching Oscillations of an Airfoil*”, Istanbul Technical University, 2005.

Yıldırım, İ., “*Experimental Investigation of Airfoil-Cylinder Wake Interactions*”, Istanbul Technical University, 2006 (co-advisor with Prof.Dr. M. Fevzi ÜNAL).

Yücel, S.B., “*Experimental Investigation of Bluff Body Wake Modification by Splitter Plate*”, Istanbul Technical University, 2008 (co-advisor with Prof.Dr. M. Fevzi ÜNAL).

Aydın, B.T., “*Effect of Self-Issuing Jets along the Span on the Near-Wake of a Square Cylinder*”, Istanbul Technical University, 2008 (co-advisor with Prof.Dr. M. Fevzi ÜNAL).

Özbilen, A.C., “*Control of Vortex Formation Around a Pitching Airfoil*”, Istanbul Technical University, 2009.

Tokgöz, S., “*Separation Control on High Lifting Devices in Use for Wind Turbines*”, Istanbul Technical University, 2009.

Son, O., “*Effects of Polymer Addition on Flow Properties and Structures around Circular Cylinders*”, Istanbul Technical University, 2010.

Tola, C., “*Experimental Investigation of Flow Structures around a Plunging Wing – Fixed Tail Couple in Steady Flow*”, Istanbul Technical University, 2012 (co-advisor with Prof.Dr. M. Fevzi ÜNAL).

**Research Projects:**

- Investigation of Flow Structures and Unsteady Loading for a Wing in Periodic or Transient Flapping Motion, Turkish Scientific Research Council 1001 Project, 112M682, Project Director, 2013-2015.

- Investigation of Unsteady Flow and Vortex Dynamics around a Wing for High Maneuverability, TUSAS - TAI (Turkish Aerospace Industries) - TX/FX, ITU-M172831, Project Director, ITU Revolving Fund Project, 2013.
- Measurement of Spray Profile for Urea Injection, Gebze TÜBİTAK-MAM Technopark Project, funded by Ford-Otosan A.Ş., Consultant, 2012-2013.
- Inspection of Aerodynamically Stabilized Flames, Turkish Scientific Research Council 1001 Project, 109M426, Researcher, 2010-2012.
- Flow Structures around an Oscillating Airfoil in Steady Current, funded by ITU Research Fund, BAP-33325, Project Director, 2009-2011.
- Experimental Investigation of Flow and Heat Transfer at the Interface Region in an Open Rectangular Cavity Horizontally Divided into Fluid and Porous Regions, Turkish Scientific Research Council 1001 Project, 107M592, Consultant, 2008-2011.
- Experimental and Numerical Investigation of Polymer and Surfactant Additives on Flow Properties and Structure at High Reynolds Number Flow Past an Object, Turkish Scientific Research Council 1001 Project, 107M390, Researcher, 2007-2010.
- Aerodynamic Optimization of Heavy Truck Cabin Geometry and Accessories, OTAM-Automotive Technology Research and Development Center (ITU Technopark) Project, funded by TEMSA R&D Inc., Consultant, 2008-2009.
- Development of New Small Scale Wind Turbine with High Performance, TURBOTEK Turbomachinery Technologies Limited Co. (METU Technopark) Project funded by Turkish Scientific Research Council (support project for small and medium sized enterprises AYG101-01), Consultant, 2008-2009.
- Oil Jet Flow Rate Test Setup Design and CFD Modeling and Analysis, EDA Energy, Dynamics, Acoustic Inc. (ITU Technopark) Project, funded by TEI-TUSAŞ Engine Industries, Consultant, 2008.
- Design and Manufacturing of a Pico Satellite (ITU-PSAT 1), Turkish Scientific Research Council 1001 Project, 106M082, Researcher, 2006-2009.
- Design and Consultancy for Vertical Wind Tunnel Project, Researcher, ITU Revolving Fund Project, Researcher, 2007-2008.
- HELSIM-Helicopter Simulator Project on Flight Data Acquisition and Software Development, ITU Revolving Fund Project, Researcher/Consultant, 2006-2007.
- Aerospace Research, Development and Application Project (Design and Prototype Manufacturing of a Multipurpose Helicopter) funded by Prime Ministry State Planning Organization, Researcher, 2001-2005.
- Interacting Wakes from Airfoil-Cylinder Couple, funded by ITU Research Fund, AFS-31382, Project Director, 2005-2006.

- Advanced Technologies in Engineering Research and Education Project, funded by Prime Ministry State Planning Organization, 90-146 2001 K120750, Aerospace Graduate Program Coordinator, 2001-2009.
- International Validation of the Test Facilities and Results of ITU 150mm x 150mm Trisonic Wind Tunnel, funded by ITU Research Fund, AFS-1505, Project Director, 2000-2005.
- Flow Separation, Shock Wave and Boundary Layer Interactions (Supersonic Vortex Breakdown), funded by NATO-RTO, NATO-RTO 127, Project Director (Assistant Project Director 2001-2003), 2001-2005.
- Trisonic Wind Tunnel Infrastructure Project, funded by Prime Ministry State Planning Organization, DPT-130/98 K121940, researcher, 2000-2001.
- Research Assistant on the Office of Naval Research Grant, "Nonlinear Wave Development and Interaction with Structures", ONR N00014-94-1-0185, 1995-1999.
- Research Assistant on the Air Force Office of Scientific Research Grant, "Unsteady Three-Dimensional Aerodynamics Flow", AFOSR F49620-95-1-0220, 1995-1997.

**Reviewer/Evaluator for:**

**Journals:** Experiments in Fluids  
ASME Journal of Fluids Engineering  
Journal of Fluids and Structures  
IEEE Transactions on Instrumentation & Measurement  
Journal of Computational and Applied Mathematics  
European Journal of Mechanics B/Fluids

**TÜBİTAK-MAG (2007, 2009)** – Turkish Scientific Research Council, Engineering Research Grant Committee (MAG)

**FP7-ENERGY-2009-1**

ENERGY.2.9: CROSS CUTTING ISSUES 1<sup>st</sup> and 2<sup>nd</sup> stages (2009)  
ENERGY.2009.2.9.1: Deep off-shore multi-purpose platforms for wind/ocean energy conversion  
ENERGY.2009.2.9.2: Coordination activities on offshore platforms

**FP7-ENERGY-2011-1**

ENERGY.2.3: WIND 1<sup>st</sup> and 2<sup>nd</sup> stages (2011)  
ENERGY.2011.2.3-2: Development of design tools for Offshore Wind farm clusters

**FP7-ENERGY-2012-1**

ENERGY.2.3: WIND 1<sup>st</sup> and 2<sup>nd</sup> stages (2011-2012)  
ENERGY.2012.2.3.1: Innovative wind conversion systems (10-20MW) for offshore applications

ENERGY.10: HORIZONTAL PROGRAMME ACTIONS 1<sup>st</sup> stage and 2<sup>nd</sup> stages (2011-2012)  
ENERGY.2012.10.2.1: Future Emerging Technologies

**Administrative Duties :**

|                       |   |                            |
|-----------------------|---|----------------------------|
| Advisor to the Rector | Istanbul Technical University   | 2011-2012                  |
| Board Membership      | Istanbul Technical University<br>Rectorate ABET Board   | 2009-2010                  |
| Board Membership      | Istanbul Technical University<br>Faculty of Aeronautics and Astronautics<br>Faculty Academic Board                                    | 2009-                      |
| Board Membership      | Istanbul Technical University<br>Faculty of Aeronautics and Astronautics<br>Faculty Administrative Board                              | 2009-                      |
| Program Coordinator   | Istanbul Technical University<br>Institute of Science and Technogy,<br>Advanced Technologies Department<br>Aerospace Graduate Program | 2001-2012                  |
| Assistant Director    | Istanbul Technical University<br>Trisonic Research Center (TAM)   | 1999-2001<br>2002-2006     |
| Senate Committee      | Istanbul Technical University<br>Senate Academic Promotion and<br>Appointment Committee   | 2004-2008                  |
| Vice Dean             | Istanbul Technical University<br>Faculty of Aeronautics and Astronautics  | 2001-2002                  |
| Vice Head of Dept.    | Istanbul Technical University<br>Faculty of Aeronautics and Astronautics<br>Department of Astronautical Engineering                   | 1999-1999<br>(09/99-11/99) |

**Membership to Scientific Organizations :**

|              |   |
|--------------|---|
| 2011-present | Technical Team Member Appointed by Nation<br>NATO-RTO AVT-184 / RTG-059:<br>Characterization of Bio-Inspired Micro Air Vehicle Dynamics<br>NATO-RTO AVT-202 / RTG-066:<br>Extension of Fundamental Flow Physics to Practical MAV Aerodynamics |
| 2001-present | General Assembly of von Karman Institute for Fluid Dynamics   |
| 1995-present | American Society of Mechanical Engineers  |

## Achievements & Honors:

Zonta International Foundation, Amelia Earhart Fellowship Award 1996/1997

Research and Teaching Assistantships, Lehigh University, 1995-1998.

Zonta International Foundation, Amelia Earhart Fellowship Award 1995/1996

1<sup>st</sup> place in the graduating class of '92, Department of Aeronautical Engineering, ITU

Scholarship from Von Karman Institute for Fluid Dynamics, 1991

1<sup>st</sup> place among students accepted to the Department of Aeronautical Engineering, ITU, in national university entrance examination, 1988

2<sup>nd</sup> place in Mathematics Competition, The Scientific and Technical Research Council of Turkey, 1985

## Courses Taught:

| Year      | Semester | Course Name  |
|-----------|----------|--|
| 2008-2009 | Fall     | Measurement Techniques<br>Flow-Induced Vibrations (GRAD) (in English)                              |
|           | Spring   | Fluid Mechanics (in English) (2 sections)  |
| 2009-2010 | Fall     | Measurement Techniques   |
|           | Spring   | Fluid Mechanics  |
| 2010-2011 | Fall     | Measurement Techniques<br>Experimental Methods in Fluid Mechanics (GRAD) (in English)              |
|           |          | Experimental Engineering<br>Fluid Mechanics  |
|           | Spring   | Fluid Mechanics  |
| 2011-2012 | Fall     | Measurement Techniques<br>Experimental Methods in Fluid Mechanics (GRAD) (in English)              |
|           |          | Experimental Engineering<br>Fluid Mechanics (in English)   |
|           | Spring   | Fluid Mechanics (in English)   |
| 2012-2013 | Fall     | Measurement Techniques (in English)<br>Experimental Methods in Fluid Mechanics (GRAD) (in English) |
|           |          | Experimental Engineering (in English)<br>Fluid Mechanics (in English)                              |
|           | Spring   | Experimental Engineering (in English)<br>Fluid Mechanics (in English)                              |
|           |          | Fluid Mechanics (in English)   |

## PUBLICATIONS

### A. Refereed Journal papers:

**A1.** O. Tuncer, B. Kaynaroglu, M.C. Karakaya, S. Kahraman, O. Cetiner-Yildirim and C. Baytas, "Preliminary investigation of a swirl stabilized premixed combustor", Fuel, DOI: 10.1016/j.fuel.2012.11.085, *corrected proof is now available online*, (2013).

- A2.** A. C. Baytas, D. Erdem, H. Acar, O. Cetiner and H. Basci, "Analytical Determination of the Permeability for Slow Flow Past Periodic Arrays of Cylinders With Different Cross Sections", *Journal of Porous Media*, Vol. 15, Issue 11, pp. 1009-1018, (2012).
- A3.** I. Fenercioglu and O. Cetiner, "Categorization of Flow Structures around a Pitching and Plunging Airfoil", *Journal of Fluids and Structures*, 31, 92-102, (2012).
- A4.** S. B. Yucel, O. Cetiner and M. F. Unal, "Interaction of circular cylinder wake with a short asymmetrically located downstream plate", *Experiments in Fluids*, 49, No. 1, 241-255, (2010).
- A5.** B. T. Aydin, O. Cetiner and M. F. Unal, "Effect of self-issuing jets along the span on the near-wake of a square cylinder", *Experiments in Fluids*, 48, No. 6, 1081-1094, (2010).
- A6.** E. Tinar and O. Cetiner, "Acceleration Data Correlated with PIV Images for Self-Induced Vibrations of an Airfoil", *Experiments in Fluids*, 41, No.2, 201-212, (2006).
- A7.** D. Rockwell, J.-C. Lin, O. Cetiner, K. Downes and Y. Yang, "Quantitative Imaging of the Wake of a Cylinder in a Steady Current and a Wave", *Journal of Fluid and Structures*, 15, 427-443, (2001).
- A8.** O. Cetiner and D. Rockwell, "Streamwise Oscillations of a Cylinder in a Steady Current. Part I: Locked-On States of Vortex Formation", *Journal of Fluid Mechanics*, 427, 1-28, (2001).
- A9.** O. Cetiner and D. Rockwell, "Streamwise Oscillations of a Cylinder in a Steady Current. Part II: Free-Surface Effects on Vortex Formation and Loading", *Journal of Fluid Mechanics*, 427, 29-59, (2001).

## **B. Published international conference papers:**

- B1.** I. Fenercioglu and O. Cetiner, "Non-Sinusoidal Forms of Effective Angle of Attack Variation and Multiple Vortex Formations for a Pitching and Plunging Airfoil", *AIAA 51<sup>st</sup> Aerospace Sciences Meeting*, January 7-9, 2013, AIAA 2013-090, DOI: 10.2514/6.2013-90, Dallas, Texas, USA.
- B2.** A.Vuruskan, I. Fenercioglu and O. Cetiner, "A study on forces acting on a flapping wing", *EFM12 Experimental Fluid Mechanics 2012*, Hradec Kralove-Czech Republic, November 20-23, 2012, *Proceedings of the International Conference*, ISBN 978-80-7372-912-7, pp. 796-803, Hradec Kralove, CZECH REPUBLIC.
- B3.** O. Tuncer, B. Kaynaroglu, M.C. Karakaya, S. Kahraman, O. Cetiner-Yildirim and C. Baytas, "Preliminary Investigation of a Swirl Stabilized Premixed Combustor", *12<sup>th</sup> International Combustion Symposium, ICS 2012*, May 24-26, 2012, paper no: T7, Kocaeli, TURKEY.
- B4.** G.R. Donerkaya, G.G. Tunali, O. Son and O. Cetiner, "Flow Structures in the Near-Wake of a Wing Pitching Up in Steady Current", *15<sup>th</sup> International Symposium on Flow Visualization*, June 25-28, 2012, ISBN: 978-985-6456-76-6, paper no: 112, Minsk, BELARUS.
- B5.** I. Fenercioglu and O. Cetiner, "Phase Angle Effects of a Pitching and Plunging Airfoil", *6th Ankara International Aerospace Conference*, September 14-16, 2011, ISBN: 978-605-61427-6-5, paper no: AIAC-2011-049, METU Ankara, TURKEY.
- B6.** D. Erdem, A.C. Baytas, H.Acar, O. Cetiner and H. Basci, "An Experimental Study on the Flow Properties at a Fluid/Porous Interface", *Experimental Fluid Mechanics 2010*, Liberec-Czech Republic, 24-26 November 2010, *Proceedings of the International Conference*, ISBN 978-80-7372-670-6, pp. 120-132, Liberec, CZECH REPUBLIC.
- B7.** S. Tokgoz, B.T. Aydin, O. Cetiner, M.F. Unal and A.R. Cete, "Experimental and Numerical Study of Flow Separation Control in a Multi-Airfoil Diffuser", *5th Ankara International*



Aerospace Conference, August 17-19, 2009, ISBN: 978-975-01656-4-1, paper no: AIAC-2009-052, METU Ankara, TURKEY.

**B8.** A.C. Ozbilen, I. Fenercioglu, B. Zaloglu and O. Cetiner-Yildirim, "The Effect of a Flexible Extension on a Pitching SD7003 Foil in Steady Current", 5th Ankara International Aerospace Conference, August 17-19, 2009, ISBN: 978-975-01656-4-1, paper no: AIAC-2009-074, METU Ankara, TURKEY.

**B9.** O. Son, N.L.O. Cetiner-Yildirim, G. Tevrizci and K. Atalik, "Effects of Polymer Addition to Structure and Properties of the Flow Around a Circular Cylinder", 5th Ankara International Aerospace Conference, August 17-19, 2009, ISBN: 978-975-01656-4-1, paper no: AIAC-2009-076, METU Ankara, TURKEY.

**B10.** A.C. Baytas, D. Erdem, H. Acar and N.L.O. Cetiner, "An Experimental and Numerical Investigation in the Composite Channel for the Boundary Conditions at a Fluid-Solid Interface", 5th Ankara International Aerospace Conference, August 17-19, 2009, ISBN: 978-975-01656-4-1, paper no: AIAC-2009-110, METU Ankara, TURKEY.

**B11.** S.B. Yücel, M. Bronz, O. Cetiner and M.F. Unal, "Influence of Attached and Detached Splitter Plates on Near Wake of a Circular Cylinder", 4th International Conference on Vortex Flows and Models (ICVFM2008), 21-23 April 2008, CD ROM Proceedings, paper no. A02, Daejeon, KOREA.

**B12.** B.T. Aydin, O. Cetiner and M.F. Unal, "Near Wake Modifications of a Square Cylinder Due to Self-Issuing Jets Periodically Located Along the Span", 4th International Conference on Vortex Flows and Models (ICVFM2008), 21-23 April 2008, CD ROM Proceedings, paper no. H04, Daejeon, KOREA.

**B13.** I. Fenercioglu and O. Cetiner, "Flow Structures around an Oscillating Airfoil in Steady Current", 14th International Symposium on Applications of Laser Techniques to Fluid Mechanics, 07-10 July 2008, Flash Memory Stick Proceedings, paper no. 1355, Lisbon, PORTUGAL.

**B14.** C. Kurtulus, T. Baltaci, M. Ulusoy, B.T. Aydin, B. Tutkun, G. Inalhan, N.L.O. Cetiner-Yildirim, T.B. Karyot, C. Yarim, F.O. Edis, C. Hacıyev, A.R. Aslan and M.F. Unal, "ITU-pSAT I: Istanbul technical university student pico-satellite", 3rd International Conference on Recent Advances in Space Technologies, June 14-16, 2007, ISBN 978-1-4244-1056-9, pp. 725-732, Istanbul, TURKEY.

**B15.** B.T. Aydin, M. Percin, O. Cetiner and M.F. Unal, "Effect of Transpassing Jet Flow With Spanwise Periodicity on the Near-Wake of Cylinders", 4th Ankara International Aerospace Conference, September 10-12, 2007, ISBN 978-975-01656-0-3, paper no. AIAC-2005-079, METU Ankara, TURKEY.

**B16.** S.B. Yucel, O. Cetiner and M.F. Unal, "Flow around a Circular Cylinder with O-Rings", Ankara International Aerospace Conference, September 10-12, 2007, ISBN 978-975-01656-0-3, paper no. AIAC-2007-084, Ankara, TURKEY.

**B17.** S. Tokgoz, E. Tinar and O. Cetiner, "Control of Self-Induced Pitching Vibrations of an Airfoil: Spanwise Wire", 12th International Symposium on Flow Visualization, September 10-14, 2006, CD ROM Proceedings ISBN 0-9533991-8-4, paper no. 20.1 & 197, DLR Gottingen, GERMANY.

**B18.** A.C. Ozbilen, E. Tinar and O. Cetiner, "Control of Self-Induced Pitching Vibrations of an Airfoil: Flexible Extension", 12th International Symposium on Flow Visualization, September 10-14, 2006, CD ROM Proceedings ISBN 0-9533991-8-4, paper no. 20.2 & 194, DLR Gottingen, GERMANY.

**B19.** M. Percin, E. Tinar, O. Cetiner and M.F. Unal, "Control of Self-Induced Pitching Vibrations of an Airfoil: Downstream Cylinder", 12th International Symposium on Flow

Visualization, September 10-14, 2006, CD ROM Proceedings ISBN 0-9533991-8-4, paper no. 20.3 & 193, DLR Gottingen, GERMANY.

**B20.** I. Yildirim, O. Cetiner and M.F. Unal, "Interacting Wakes from Airfoil-Cylinder Couple", Proceedings of the 3rd International Conference on Vortex Flows and Vortex Models (ICFVM2005), November 21-23, 2005, ISBN 4-9902792-0-4, pp. 185-190, Yokohama, JAPAN.

**B21.** E. Tinar and O. Cetiner, "Acceleration Data Correlated with PIV Images for Self-Induced Vibrations of an Airfoil", 6th International Symposium on Particle Image Velocimetry, September 21-23, 2005, CD ROM Proceedings, paper no. FSI S03-4, Pasadena, California, USA.

**B22.** I. Yildirim, O. Cetiner and M.F. Unal, "PIV Measurements of the Wake Interactions for a Circular Cylinder behind an Airfoil", 6th International Symposium on Particle Image Velocimetry, September 21-23, 2005, CD ROM Proceedings, paper no. FSI S03-5, Pasadena, California, USA.

**B23.** I. Yildirim, O. Cetiner and M.F. Unal, "Wake Interactions for a Circular Cylinder behind an Airfoil", Ankara International Aerospace Conference, August 22-25, 2005, ISBN 975-429-234-5, paper no. AIAC-2005-075, Ankara, TURKEY.

**B24.** K. Anbarci, O. Cetiner and F.O. Edis, "Airfoil Lift Prediction via Velocity Field Measurements", Ankara International Aerospace Conference, August 22-25, 2005, ISBN 975-429-234-5, paper no. AIAC-2005-072, Ankara, TURKEY.

**B25.** E. Tinar and O. Cetiner, "Self-Induced Pitching Oscillations of an Airfoil", 11th International Symposium on Flow Visualization, August 9-12, 2004, CD ROM Proceedings ISBN 0-9533991-5-X, paper no. 1.12.3 & 125, Notre Dame, Indiana, USA.

**B26.** M. Saritas, E. Tinar and O. Cetiner, "Interaction of Rotor Blade Tip Vortices with Surface", 11th International Symposium on Flow Visualization, August 9-12, 2004, CD ROM Proceedings ISBN 0-9533991-5-X, paper no. 1.8.1 & 124, Notre Dame, Indiana, USA.

**B27.** A. Sayin, K.B. Yuceil and O. Cetiner, "Determination and Improvement of Transonic Flow Properties of a Trisonic Wind Tunnel for Its Use in Missile Aerodynamics", Seventh Triennial International Symposium on Fluid Control, Measurement and Visualization, August 25-28, 2003, CD-ROM Proceedings, ISBN 0-9533991-4-1, paper no. 234, Sorrento, ITALY.

**B28.** M. Saritas and O. Cetiner, "Flow Structure and Loading Due to an Oscillating Cylinder in Steady Current", Seventh Triennial International Symposium on Fluid Control, Measurement and Visualization, August 25-28, 2003, CD-ROM Proceedings, ISBN 0-9533991-4-1, paper no. 230, Sorrento, ITALY.

**B29.** O. Cetiner, M.F. Unal and D. Rockwell, "A Discrete Vortex Study of Streamwise Oscillations of a Circular Cylinder: Comparison with Experiment", The Second International Conference on Vortex Methods, September 26-28, 2001, ISBN 975-561-194-0, pp. 165-172, Istanbul, TURKEY.

**B30.** O. Cetiner and D. Rockwell, "Streamwise Oscillations of a Cylinder in a Steady Current", Proceedings of the 7<sup>th</sup> International Conference on Flow-Induced Vibration, June 19-22, 2000, ISBN 90 5809 129 5, pp. 37-43, 2000, Luzern, SWITZERLAND.

**B31.** O. Cetiner, "A Successful Approach For Lab Classes", Proceedings of 28th Engineering Education Symposium, 20-24 September, 1999, ISBN 3-88064-290-7, pp. 1007-1021, Istanbul, TURKEY.

**B32.** O. Cetiner, J.-C. Lin and D. Rockwell, "Vortex Formation from an Oscillating Cylinder: Three-Dimensional Features of the Near-Wake", Bulletin of the American Physical Society, vol. 43, No. 9, Abstract No. GB8, p. 2046, 1998.

**B33.** O. Cetiner, Q. Zhu, J.-C. Lin, M.F. Unal and D. Rockwell, "Orbital Oscillations of a Cylinder in Presence of a Free-Surface: Vortex Formation and Loading", Bulletin of the American Physical Society, vol. 41, No. 9, Abstract No. HD4, p. 1810, 1996.

**B34.** Q. Zhu, O. Cetiner, J.-C. Lin, M.F. Unal and D. Rockwell “Impulsive and Periodic Response of a Cylinder-Free Surface System: Vorticity Field and Loading”, Bulletin of the American Physical Society, vol. 41, No. 9, Abstract No. HD1, p. 1809, 1996.

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