OKTAY ÖZCAN RESUME

1. Name, Surname: Oktay Özcan

2. Date of Birth: January 5th 1954

3. Title: Professor

4. Education:

Degree	Field	University	Year
B.S	Mechanical Engineering	Istanbul Tech. Univ.(ITU)	1975
M.S.	Mechanical Engineering	Bosphorus University	1977
Ph.D.	Mechanical Engineering	Univ.of California, Berkeley	1982

5. Academic Titles and Positions

Postdoctoral Fellow	NASA/Ames Res. Cent.	USA	1982-1983
Assistant Professor	Faculty of Aero.&Astro.	ITU	1984-1987
Associate Professor	Faculty of Aero.&Astro.	ITU	1987-1993
Postdoctoral Fellow	NASA/Ames Res. Cent.	USA	1988-1990
Professor	Faculty of Aero.&Astro.	ITU	1993-2002
Visiting Professor	Tech. Univ. of Denmark	Denmark	1999-2001
Professor	Mechanical Eng.	Yildiz Tech. Univ.	2002- 2011
Professor	Mechatronics Eng	Bahçeşehir Univ.	2011-2015
Professor	Mechanical Eng	Kemerburgaz Univ.	2015- 2017
Professor	Mechanical Eng	Istanbul Aydin Univ.	2017 -

6. Publications

6.1 Journal publications

Kaya, K. and Özcan, O., ``A numerical investigation on aerodynamic characteristics of an air cushion vehicle," Journal of Wind Engineering and Industrial Aerodynamics 120, 70-80, (2013).

- Kürekçi, N.A. and Özcan, O., "An experimental and numerical study of laminar natural convection in a differentially-heated cubical enclosure," Journal of Thermal Science and Technology, 32, 1-8, (2012).
- Meyer, K.E., Pedersen, J.M. and Özcan, O., ``Turbulent jet in crossflow analysed with proper Orthogonal Decomposition," Journal of Fluid Mechanics, 583, 199-228 (2007).
- Özcan, O., Meyer, K.E. and Larsen, P.S. ``Measurement of Mean Rotation and Strain-rate Tensors by Using Stereoscopic PIV," Experiments in Fluids, 39, 771-783 (2005).
- Özcan, O., Meyer, K.E. and Melikov, A. ``A Visual Description of the Convective Flow Field around the Head of a Human," Journal of Visualization, 8, 23-31 (2005).
- Ullum, T., Larsen, P.S. and Özcan, O., "Three-Dimensional flow and turbulence structure in electrostatic precipitator", Experiments in Fluids, 36, 91—99 (2004).
- Özcan, O. and Larsen P.S., "A Laser Doppler Anemometry Study of a Turbulent Jet in Crossflow," AIAA Journal, 41, 1614-1616 (2003).
- Meyer, K.E., Özcan, O. and Westergaard, C.H., "Flow Mapping of a Jet in Crossflow with Stereoscopic PIV," Journal of Visualization, 5, 225—231 (2002).
- Özcan, O. and Yüceil, B., "Comment on Supersonic Separation with Obstructions", AIAA Journal, 35, 1423—1424 (1997).
- Özcan, O., Johnson, D.A. and Simpson, R.L., ``Comment on ``Wakes of Three Axisymmetric Bodies at Zero Angle of Attack"." AIAA Journal, 33, 569—570 (1995).
- Wideman, J., Brown, J.L., Miles J.B. and Özcan, O., "Skin—Friction Measurements in a 3--D, Supersonic Shock--Wave Boundary—Layer Interaction", AIAA Journal, 33, 805—811 (1995).
- Özcan, O., Edis, F.O., Aslan, A. and Pınar, I., "Reply by the Authors To G. Emanuel", Journal of Aircraft, 32, 1168 (1995).
- Özcan, O., Edis, F.O., Aslan, A. and Pınar, I., ``Inverse Solutions of the Prandtl-Meyer Function", Journal of Aircraft, 31, 1422—1424 (1994).
- Özcan, O. and Yüceil, B., "Cylinder Induced Shock-Wave Boundary-Layer Interaction", AIAA Journal, 30, 1130—1132 (1992).
- Özcan, O. and Kaya, M. O., ``Shock-Wave Boundary-Layer Interaction at a Swept Compression Corner", AIAA Journal, 27, 1646-1648 (1989).
- Özcan, O. and Ölçmen, M. S., "Measurements of Turbulent Flow Behind a Wing-Body Junction", AIAA Journal, 26, 494-496 (1988).

- Özcan, O., "Three-Component LDA Mesurements in a Turbulent Boundary-Layer", Experiments in Fluids, 6, 327-334 (1988).
- Özcan, O. and Ölçmen, M. S., "Measurements in the Wake of a Wing-Body Junction", Bulletin of the Technical University of Istanbul, 40, 537-549 (1987).
- Özcan, O. and Johnson, D. A., "A Three-Component LDA System for Turbulence and Mean Velocity Mesurements", Bulletin of the Technical University of Istanbul, 38, 409-419 (1985).
- Özcan, O. and Holt, M., "Supersonic Separated Flow Past a Cylinder on a Flat Plate", AIAA Journal, 22, 611-617 (1984).

6.2 Conference Publications

- Özcan, O., "Description and Measurement Accuracy of a 3D LDA System", ASME Fluid Mesurements and Instrumentation Forum, Cincinatti, Ohio, U.S.A., June 14-18, 1987.
- Özcan, O. and Ölçmen, M. S., "Measurements of Turbulent Flow Behind a Wing-Body Junction", 6th Symposium on Turbulent Shear Flows", Toulouse, France, September 7-9, 1987.
- Özcan, O., "Measurements in a Three-Dimensional Turbulent Boundary-Layer", 6th Symposium on Turbulent Shear Flows", Toulouse, France, September 7-9, 1987.
- Özcan, O., "Measurement Errors in Three-Component Laser Anemometry", Symposium on Experimental Uncertainty in Fluid Measurements, ASME Winter Annual Meeting, Boston, U.S.A., December 14-18, 1987.
- Brown , J. L. and Özcan , O. , ``A 3-D Laser Velocimeter for Supersonic Turbulent Flows", Measurements and Instrumentation Workshop, NASA-Ames Research Center, Moffett Field, U.S.A., July 1989.
- Özcan, O., Kaya, M. O. And Ünalmış, H., ``Supersonic Separated Flow over a Swept Compression Corner", 10 th Australasian Fluid Mechanics Conference, Melbourne, Australia, December 11-15, 1989.
- Özcan, O., Ünal, M.F., Aslan, A.R., Bozkurt, Y. and Aydın, N.H., ``Aerodynamic Characteristics of an External Store Carriage: Part A" AIAA Paper 93--3507, 11th Applied Aerodynamics Conference, Monterey, California, August 9--11, 1993.
- Özcan, O., Ünal, M.F., Bozkurt, Y. and Doğan, A., ``Aerodynamic Characteristics of an External Store Carriage: Part B" AIAA Paper 94--0289, 32nd Aerospace Sciences Meeting, Reno, Nevada, January 10--13, 1994.

- Wideman, J., Brown, J.L., Miles J.B. and Özcan, O., "Skin—Friction Measurements in a 3--D, Supersonic Shock--Wave Boundary—Layer Interaction," AIAA Paper 94-0314, 32nd Aerospace Sciences Meeting, Reno, Nevada, January 10--13, 1994.
- Meyer, K.E., Özcan, O., Larsen, P.S, Gjelstrup, P. and Westergaard, C.H., "Point and planar LIF for velocity-concentration correlations in a jet in crossflow," In Laser Techniques for Fluid Mechanics: Selected Papers from the 10th International Symposium, Lisbon, July 10--13, 2000 (ed. R.J. Adrian, D.F.G. Durao, M.V. Heitor), pp.437-448, Springer.
- Özcan, O., Meyer, K.E., Larsen, P.S., Gjelstrup P. and and Westergaard, C.H., "Simultaneous measurement of velocity and concentration in a jet in crossflow," Forum on "Fluid Mechanics of Mixing Phenomena: Fundamementals and Industrial Applications," ASME Fluids Eng. Div. Summer Meeting, New Orleans, Louisina, May 29-June 1, 2001.
- Meyer, K.E., Özcan, O., Larsen, P.S. and Westergaard, C.H., `Stereoscopic PIV measurements in a jet in crossflow," Second International Symposium on Turbulence and Shear Flow Phenomena, Stockholm, June 27-29, 2001.
- Meyer, K.E., Özcan, O. and Westergaard, C.H., "Flow Mapping of a Jet in Crossflow with Stereoscopic PIV," Fourth International Symposium on Particle Image Velocimetry, Gottingen, Germany, September 17-19, 2001.
- Ullum, T., Larsen, P.S. and Özcan, O., ``Three-Dimensional Flow and Turbulence Structure in Electrostatic Precipitator", 11th International Symposium on ``Applications of Laser Techniques to Fluid Mechanics", Lisbon, July 8--11, 2002.
- Özcan, O., Meyer, K.E. and Melikov, A. ``Turbulent and Stationary Convective Flow Field around the Head of a Human", in Turbulence, Heat and Mass Transfer 4, Begell House, Inc., New York, pp.1147-1154, Edited by K. Hanjalic, Y. Nagano and M.J. Tummers, Proceedings of the Fourth International Symposium on Turbulence, Heat and Mass transfer, Antalya, Turkey, 12-17 October, 2003.
- Özcan, O., Meyer, K.E. and Larsen, P.S. ``Measurement of rotation-- and strain—rate tensors by using stereoscopic PIV", 12th International Symposium on Applications of Laser Techniques to Fluid Mechanics, Lisbon, Portugal, 12-15 July, 2004.

6.3 Other Publications

- Özcan, O., "A Hot-Wire Method for Three-Dimensional Flows", Master Thesis, Bosphorus University, Thesis Advisor: Sedat Biringen, 1977.
- Özcan, O., "An Experimental Investigation of Three-Dimensional Supersonic Flow Past a Circular Cylinder on a Flat Plate", Ph. D. Thesis, University of California, Berkeley, Thesis Advisor: Maurice Holt, 1982.

Wideman, J., Brown, J.L., Miles J.B. and Özcan, O., "Surface Documentation of a 3-D, Supersonic Shock-Wave Boundary-Layer Interaction," NASA Technical Memorandum TM-108824, June 1994.

Larsen, P.S., Ullum, T. and Özcan, O. "Electrostatic Precipitation-Reduction of Emissions and Energy Consumption", EFP-2000, Dept. of Mechanical Engineering, Tech. Univ. of Denmark, 2002.

Özcan, O. and Larsen, P.S., "An Experimental Study of a Turbulent Jet in Cross-Flow by Using LDA", MEK-FM 2001-02, Dept. of Mechanical Engineering, Tech. Univ. of Denmark, June 2001.

7. Courses Given

- a) Introduction to Fluid Mechanics and Heat Transfer
- b) Computer-Aided Technical Drawing
- c) Introduction to Computational Fluid Dynamics
- d) Computational Methods in Engineering
- e) Pipeline Engineering
- f) Vehicle Aerodynamics
- g) Fluid Mechanics
- h) Heat Transfer
- i) Thermodynamics
- j) Aerodynamics
- k) Probability and Statistics
- 1) Dynamics
- m) Advanced Fluid Mechanics (Graduate)
- n) Boundary-Layer Flows (Graduate)
- o) Compressible Flows (Graduate)
- p) Turbulent Flows (Graduate)

8. Other

Number of Master Students: 20

Number of Ph.D. Students: 2

Number of Citations (Web of Science): 150

Number of Citations (Google Scholar): 430