**Cesar Levy**

**Name and academic rank:**

Cesar Levy, Professor

**Degrees with fields, institutions and date:**

Ph.D.Mechanical Engineering, Stanford University, Stanford, California, 1983

M.S.Applied Mathematics, CIMS, New York University, New York, 1974

B.S.Aerospace Engineering, Polytechnic Institute of Brooklyn, New York, 1972

**Number of years of service for this faculty, date of original appointments, and dates of advancement in rank:**

34 Years

Chairperson, Mechanical and Materials Engineering Department, Florida International University, 2009- 2014

Associate Dean--Undergraduate Studies and Academic Affairs, College of Engineering and Computing 2007-2009

Full Professor, Florida International University, 1996-present

Associate Professor, Florida International University, 1991-1996

Assistant Professor, Florida International University, 1985-1991

**Other related experience:**

ABET Mechanical Engineering PEV accreditation visits in 2006, 2008, 2010, 2011, 2012, 2013, 2015-2018

Visiting Professor, Dept of Mechanical Engineering, BenGurion University of the Negev, Israel, 2007, 2014

Professor, Dept. of Civil Engineering, College of Judea and Samaria, Israel,1999-2001

Visiting Associate Professor, Dept of Mechanical Engineering, BenGurion University of the Negev, Israel, 1996

PostDoctoral, Technion, Israel Institute of Technology, Haifa, Israel, 1983-1985

Teaching Assistant, Department of Mechanical Engineering, Stanford University, 1981

Instructor, El Paso Community College, 1976-1978

**Consulting, patents, etc.:**

-Dr. David Dennis, consulting on load bearing and failure capacity of marble covered table, 2016

-Mr. Thomas Baine, Aerospace Research Council, consulting on vertical continuity of Aeronautics/Aerospace Education in Florida, 2009-2012

-Mr. Gene Milowicki, consulting on vertical continuity of Aeronautics/Aerospace Education in Florida, 2008-2009

-Mr. Mitch Kozak, Aerospace Research Council, consulting on vertical continuity of Aeronautics/Aerospace Education in Florida, 2006-2008.

-Mr. Tommy Bowermeister, Florida State University, consulting on the Florida Aviation/Aerospace Career Cluster Consortium Project, 2004-2005.

-Worked with Prof. Jacob Braun (Technion-Israel Institute of Technology) to create an ABET-like process to evaluate engineering colleges in Israel. The work was performed for the Israel Ministry of Higher Education, 2001.

**State in which registered: N/A**

**Principal publications** **(Last five years):**

**Journals**

1. Mardanpour, P., Izadpanahi, E., Rastkar, S., Calastawad, S., and Levy, C., “Effect of Shooting and Blast-Induced Gust on Nonlinear Aeroelastic Stability and Behaviour of High-Aspect Ratio Wing”, Journal of Sound and Vibration, 433, pp 299-313 (2018). DOI: http://dx.doi.org/10.1016/j.jsv.2018.06.067

2. Lin, W., Rotenberg, Y., Fekrmandi, H., and Levy, C., “Buckypaper/DYAD/Buckypaper and Buckypaper/DYAD/(PANI/MWCNT) Composite Sensors: Preparation and Damping Properties Characterization”, Journal of Composite Materials, 0(0), pgs. 1-8, Aug. 2017, DOI: https://doi.org/10.1177/0021998317725160

3. Perl, M., Ma, Q., and Levy, C., “Three-Dimensional Interaction between a Quarter-Circle Corner Crack and a Non-Aligned Semi-Elliptical Surface Crack in an Infinitely Large Plate under Tension”, AIMS Material Science 3(4), pp 1474-1492 (2016). DOI: http://dx.doi.org/10.3934/matersci.2016.4.1474

4. Weiwei LIN, Yonatan ROTENBERG, Hadi FEKRMANDI, Kevin P. WARD and C. Levy, "Polyaniline/Multi-Walled Carbon Nanotubes Composites for Structural Vibration Damping and Strain Sensing", Journal of Materials Research-Special Issue: Early Career Scholars in Materials Science (2016), 11 pages. Also: DOI: http://dx.doi.org/10.1557/jmr.2016.361

5. Ma, Q., Levy, C., and Perl, M., “The Effects of Crack Ellipticity on the Mode I SIFs of a Simulated Eroded Pressurized Cylinder”, ICPVT-14, Procedia Engineering, Vol. 130, pp. 711 – 730 (2015). Also doi: 10.1016/j.proeng.2015.12.172

6. Ma, Q., Levy, C., and Perl, M., “3-D Interaction of a Corner Flaw with a Non-Aligned Surface Flaw in an Infinitely Large Plate under Tension”, ICPVT-14, Procedia Engineering, Vol. 130, pp. 1288 – 1297 (2015). Also doi: 10.1016/j.proeng.2015.12.299

7. Weiwei LIN, Yonatan ROTENBERG, Hadi FEKRMANDI, Kevin P. WARD and C. Levy, “Multifunctional Materials of Polyurethane/MWCNT and Evaluation of Damping and Displacement Sensing Properties," Int’l Journal of Innovative Research in Science, Engineering and Technology, Vol. 4 (12), 14 pages. (2015). DOI:10.15680/IJIRSET.2015.0412150. Also, http://www.ijirset.com/upload/2015/december/150\_40\_Multifunctional.pdf.

8. Lin, W., Kong, X., and Levy, C., “Preparation of Polyaniline Multi-wall Carbon Nanotubes Nanocomposites films/discs and Characterization of their Electrical, Mechanical and Damping Properties”, Sensors & Transducers journal, Vol. 187 (4), pp. 129-137 (2015). Also, http://www.sensorsportal.com/HTML/DIGEST/april\_2015/Vol\_187/P\_RP\_0199.pdf

9. Ma, Q., Levy, C. and Perl, M., “The Bauschinger Effect’s Influence on the SIFs of a Semi-Elliptical Crack Emanating from an Erosion at the Bore of a Fully Autofrettaged Pressurized Cylinder”, ASME Journal of Pressure Vessel Technology, Vol. 137(4), 041403, 7 pages (2015). Also, doi:10.1115/1.4029018

**Proceedings-Refereed**

1. Ma, Q., Perl, M. and Levy, C., “Stress Intensity Factors for an Edge Crack Interacting with an Embedded Parallel Crack for a Finite Plate Under Pure Bending”, Paper PVP2019-90248, 14-18 July 2019, San Antonio, TX.

2. Mardanpour, P., Izadpanahi, E., Rastkar, S., Calastawad, S., and Levy, C., “Effects of Armament Placement on Nonlinear Dynamic Behavior of High-aspect Ratio Wing Due to Shooting and Blast-Induced Gust”, FD-28, Flow-Induced Flutter: Advances in Modeling, Experiments and Applications II, June 26, 2018, 2018 Fluid Dynamics Conference, 2018 AIAA Aviation and Aeronautics Forum and Exposition, Atlanta, Georgia, 25-29 June 2018.

3. Perl, M., Levy, C., and Ma, Q., “The Reciprocal Effect among a Quarter-Circle Corner Crack and a Non-Aligned Surface Crack of Comparable Size in an Infinitely Large Plate Under Uniaxial Tension”, Paper PVP2018-84035, Proceedings of the PVP2018, 15-20 July, 2018, Prague, The Czech Republic.

4. Levy, C., Perl, M., and Ma, Q., “The Effect of a Quarter-Circle Corner Crack on the Distribution of the SIF along the front of a Non-Aligned Semi-Elliptical Surface Crack in an Infinitely Large Plate under Uniaxial Tension”, Paper IMECE2017-72468, Proceedings of the IMECE 2017, 3-8 November, 2017, Tampa, FL.

5. Perl, M., Ma, Q., and Levy, C., “Three-Dimensional Interaction between a Quarter-Circle Corner Crack and a Non-Aligned Semi-Elliptical Surface Crack in an infinitely large Plate under Tension”, Paper PVP2016-63081, Proceedings of the PVP2016, 16-23 July 2016, Vancouver CA.

6. Ma, Q., Levy, C., and Perl, M., “The Effects of Crack Ellipticity on the Mode I SIFs of a Simulated Eroded Pressurized Cylinder”, Proceedings of the ICPVT-14, Paper ICPVT-14-P0010, Shanghai, China, 23-26 September 2015.

7. Ma, Q., Levy, C., and Perl, M., “3-D Interaction of a Corner Flaw with a Non-Aligned Surface Flaw in an Infinitely Large Plate under Tension”, Proceedings of the ICPVT-14, Paper ICPVT-14-P0011, Shanghai, China, 23-26 September 2015.

8. Ma, Q., Levy, C., and Perl, M., “Crack Non-circularity and Finite Erosion Effects on the 3D SIFs of a Bauschinger Modified Pressurized Thick-Walled Cylinder”, Paper PVP2015-45006, Proceedings of the 2015 PVP Conference, Boston, MA, July 2015.

9. Ma, Q., Levy, C. and Perl, M., “The Combined Effect of a Finite Axial Erosion with Bauschinger Modified Autofrettage on the 3D SIFs of Pressurized Cylinders”, Paper PVP2014-28033, Proceedings of the 2014 PVP Conference, Anaheim, CA, July, 2014.

**Memberships** **in scientific and professional societies:**

ASME, Sigma Xi, Tau Beta Pi

**Honors and awards:**

Named ABET Mechanical Engineering Program Evaluator, 2006-2012; have continued since then as well.

Received College of Engineering and Computing Excellence in Service Award in 2016.

Dissertation Advisor Status conferred, FIU, June 2005; renewed in January, 2013

Named ASME Fellow, January 2010

Honored by FIU for Outstanding Performance in Research Funding, 2010

**Institutional and professional services (Last five years):**

**Editorial Board-*The Open Construction and Building Technology Journal*: 2009-**

**Editorial Board-** ***Journal of Modern Civil and Structural Engineering*: 2016-**

**Reviewer for the following:**

Elsevier book review, 2019

Composite Structures, 2017; Engineering Fracture Mechanics, 2014, 2017 (2 papers), 2019; Coatings, 2017;

ICCMSE 2017, 2018; Applied Sciences, 2017; Engineering Failure Analysis, 2015; Egyptian Journal of Basic Sciences, 2015; Journal of Material and Design, 2015; ASME Journal of Pressure Vessel Technology 2014, 2019; The Open Materials Science Journal, 2014; The Open Civil Engineering Journal, 2014, 2015; International Journal of Mathematics, 2014; International Journal of Nanomanufacturing, 2013; Sensors and Actuators, 2013;

Sensors, 2012, 2014, 2015;

Tenure and Promotion File Reviewer, External: 1 US and 4 Israel

**Judge, GSAW-Graduate Scholar Forum FIU** 2016, 2017, 2019

**Judge, CURFEW-Undergraduate Research Forum FIU** 2018

**Member, College Curriculum Committee.** 2016-2017; Committee Chair 2018-2019.

**Chairman and/or Member Undergraduate Mechanical Engineering Program Review Committee,** 2012-2016.

**Member, Graduate Mechanical Engineering Program Review Committee,** 2010-2017**.**

**Mechanical Engineering Program’s ABET Accreditation Preparation Team: Chair** 2012-2013**, Member** 2017-present**.**

**Member and/or Chair of Search and Screen Committee,** 2014-15, 2018**.**

**Graduate Program Director,** 2009-2016**.**

**Course Scheduling Graduate Program,** 2009-2016**.**

**Member and/or Chairman of Tenure and Promotion Committee**, 2014-present**.**

**Member and Chair Dissertation Advisor Status Committee:** 2010-2016**.**

**Member of Department Undergraduate Curriculum Committee:** 2010-present**.**

**Professional development activities (Last five years):**

The 2019 ASME PVP Conference, San Antonio, TX, July 2019

The 2018 ASME PVP Conference, Prague, The Czech Republic, July, 2018

The 2017 ASME IMECE Conference, Tampa, Florida, November, 2017

ABET Conference, Ft. Lauderdale, April, 2016

The 2016 ASME PVP Conference, Vancouver, CA, July, 2016

The 2015 ASME PVP Conference, Boston, MA, July 2015

The 2014 ASME PVP Conference, Anaheim, CA, July 2014

Visiting Professor, Dept of Mechanical Engineering, BenGurion University of the Negev, Israel, 2014

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