

CURRICULUM VITAE

Cesar Levy, Ph.D.

February, 2018

PERSONAL

Date of Birth: 22 November 1950

Citizenship: USA and Israel

Marital Status: Married with two children

Present Address: Department of Mechanical and Materials Engineering
Florida International University
Miami, FL 33199

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Military Service: U.S. Army 1974-1978 (Active Service), Highest Rank-CPT
1978-1999 (US. Army Reserves), Highest Rank - LTC

ACADEMIC DEGREES

- a. Stanford University, Stanford, California
Ph.D. in Mechanical Engineering 1983
- b. Courant Institute of Mathematical Sciences,
New York University, New York
M.S. in Applied Mathematics 1974
- c. Polytechnic Institute of Brooklyn, New York
B.S. (Summa Cum Laude) in Aerospace Engineering 1972

PRESENT POSITION

Professor, Department of Mechanical and Materials Engineering,
Florida International University, Miami, FL 33199

And

Co-Graduate Program Director April 2014- May, 2016
Co-Graduate Program Director and Interim Undergraduate Program Director, April 2014- December 2014
Chair and Co-Graduate Program Director and Interim Undergraduate Program Director, July 2013- April 2014
Chair and Graduate Program Director, July 2011-July 2013
Chair, Department of Mechanical and Materials Engineering, July 2009-April 2014
Graduate Program Director January 2003-September 2003
Tenured Full Professor since 1 August 1996
Promoted to Associate Professor and Tenured - 1 August 1990
Hired as Assistant Professor - 1 August 1985

As co-Graduate Program Director I was responsible for:

- the evaluation of all MS and PhD candidate files for admission
- the POs and SLOs for both the mechanical engineering and materials engineering MS and PhD files
- advising the graduate students so that they can attain candidacy as quickly as possible
- coordinating the qualifying examination
- registering students for graduate classes
- preparing program reviews for all graduate programs
- coordinating applications for DEA/DYF/PF from existing and future graduate students

As Interim Undergraduate Program Director I was responsible for:

- preparing the department and the undergraduate program for the 2014 ABET reaccreditation visit
- preparing the program self-study and the supporting data to be submitted in July 2014 to ABET
- ensuring that all ABET files were current and relevant
- helping the department chair be current and relevant during the meeting with the ABET PEV

As Chair I was Responsible for:

- Departmental teaching schedule and FTE, faculty grant getting, faculty public service, hiring, firing, faculty welfare, MS and PhD student hiring, firing and assignments.
- Teaching existing courses and developing new courses for inclusion in department curriculum.
- Advising students on courses and course and degree requirements.
- Developing research proposals in nanotechnology, fracture mechanics, vibrations, and engineering education.

Accomplishments at Florida International University:

- As Co-Undergraduate Program Director led successful re-accreditation of the undergraduate Mechanical Engineering Program 2014-15.
- As Chair, department achieved increases in FTEs, headcount, publications, and funding between Summer 2009- Fall 2012 semesters.
- As Associate Dean: Directed ABET reaccreditation effort- all programs re-accredited by ABET and received very good to excellent evaluations 2008-09
- SACS re-accreditation documents submitted in a timely manner
- Program Reviews submitted in a timely manner.
- Graduate Program Director – won for the Mechanical and Materials Engineering Programs 14 Presidential Fellowships. Increased the number of graduate students applying to the graduate program to a yearly average of 180 MS and 40 PhD students. Guided many students into winning DEAs and DYFs. For example, for period 2012-2016 our students won 14 DEAs and 23 DYFs.
- Graduate Program - created its initial structure and requirements (1989- 1991); created three of its core courses and four of its elective courses. Have taught 5 of its core courses since 2001
- Overhauled undergraduate advising to be more responsive to students (1985-87). Created recordkeeping mechanism for student advisement and ABET accreditation.
- Created the Aerospace Engineering Track for the BSME and the Minor in Aerospace Engineering (2006-2007).
- Developed undergraduate curricula and courses to meet ABET and industrial requirements.
- Wrote and won eighteen grants from state and federal agencies and local industry in last twenty years (1991-2011) with nine in engineering education.

PREVIOUS ACADEMIC RELATED POSITIONS

2007-2009 Associate Dean for Academic Affairs and Undergraduate Programs
College of Engineering and Computing
Florida International University, starting 11/26/07

Responsible for:

- College's ABET, SACS, Program Review and ALC accreditation effort
- Directing College's undergraduate student affairs
- College's undergraduate recruitment efforts.
- Preparation of College Programs for ABET accreditation and reaccreditation
- Coordination of College Programs for University SACS accreditation
- Coordination of College Programs for Program Reviews
- Coordination of College's academic policies with the departments and School of Computing and Information Sciences
- Other duties as assigned by the Dean, College of Engineering and Computing

Accomplishments at Florida International University:

- All programs re-accredited by ABET received very good to excellent evaluations
- SACS re-accreditation documents submitted in a timely manner
- Program Reviews complete with favorable reviews from external evaluators.
- Instituted a peer-to-peer tutoring system within the college

1999-2001 Full Professor, Department of Civil Engineering, College of Judea and Samaria, Ariel, Israel

Accomplishments at College of Judea and Samaria:

- Undergraduate Program – helped create US ABET-like materials to aid in accreditation of the Civil Engineering program (**program was accredited by State of Israel- April 2001**)
- modified record keeping mechanism for student advising to minimize problems and insure student adherence to program requirements

2000-2001 Senior Lecturer awaiting appointment as Full Professor, Department of Building Engineering, Negev Academic College of Engineering, Beer Sheva, Israel

Accomplishments at Negev Academic College of Engineering:

- Undergraduate Program –created for the college a new Systems Engineering program that is Mechanical Engineering based with a heavy minor in electrical engineering and with a systems engineering minor based on the Univ. of Pennsylvania SE program. **Program received positive reviews from industry and the Israel Air Force.**

1996 Visiting Associate Professor, Pearlstone Center for Aeronautical Engineering Studies,
Department of Mechanical Engineering, BenGurion University of the Negev, Beer Sheva,
Israel

On sabbatical--co-authored seven papers and two proceeding papers

1983-1985 Lady Davis Post-Doctoral Fellow and Research Associate,
Faculty of Mechanical Engineering, Technion, Israel Institute of Technology, Haifa, Israel

Continued Ph.D. thesis work in the description of dynamic fracture in tension and bend specimens specializing in the description of crack kinking. Investigated dynamic crack propagation for use in cutting stone. Was the guest lecturer in the graduate level Fracture Mechanics course.

- 1981 Teaching Assistant, Department of Mechanical Engineering,
Stanford University, Stanford, California
- Taught the student help sessions for the "Mathematical Methods in Mechanical Engineering" graduate level course 1/81-4/81; instructor aide for several graduate courses in elasticity.
- 1977 Instructor, U.S. Army Air Defense School, Ft. Bliss, Texas
- Taught the Fluid Dynamics and Propulsion blocks of instruction in the Systems, Engineering, Analysis and Management (SEAM) course.
- 1976-1977 Instructor, Department of Mathematics,
El Paso Community College, El Paso, Texas
- Taught several mathematics courses on a part time basis.

PROFESSIONAL EXPERIENCE (Non-Teaching)

- a. ABET PEV accreditation visits in 2006, 2008, 2010, 2011, 2012, 2013, 2015, 2016, 2017
- b. Dr. David Dennis, consulting on load bearing and failure capacity of marble covered table, 2016
- c. Mr. Thomas Baine, Aerospace Research Council, consulting on vertical continuity of Aeronautics/Aerospace Education in Florida, 2009-2011
- d. Mr. Gene Milowicki, consulting on vertical continuity of Aeronautics/Aerospace Education in Florida, 2008-2009
- e. Mr. Mitch Kozak, Aerospace Research Council, consulting on vertical continuity of Aeronautics/Aerospace Education in Florida, 2006-2008
- f. Mr. Tommy Bowermeister, Florida State University, consulting on the Florida Aviation/Aerospace Career Cluster Consortium Project (2004)
- g. Heriberto Lopez, on the design of a vibration shaker to harvest coffee beans (2004-5).
- h. Mr. Myron Lieberman, on the feasibility of water/air propulsion systems (2004)
- i. Worked with Prof. Jacob Braun (Technion-Israel Institute of Technology) to create an ABET-like process for the purpose of evaluating engineering colleges in Israel. The work was performed for the Israel Ministry of Higher Education (2001).
- j. Mr. Reginald Bradley, Solutia, Inc., Cantonment, FL, on the modeling and solution of a differential equation representing chemical processes, April, 1997.
- k. Mr. Mark Wolkenfeld, Miami, Florida, Consulting on Design/Fatigue Life of Machine Parts on Assembly Line, 1996.
- l. Mrs. Priscilla Nichols, Miami, Florida, Consulting on Design of a Multiple Bandage Roller, 1995.
- m. Mr. Benjamin Atkin, Integrated Health Products, Inc., N. Miami Beach, Florida, Consulting for Ultrasonic Dental Scaler, 1994.

- n. Mr. Andrew Benkoczy, ACI Composites, Inc. Miami, Florida, Consulting on the design of a composite materials volleyball pole, 1989.
- o. Spillis, Candela and Partners, Inc., Miami, Florida, Consulting on the fracture of glass, 1987.
- p. Apple Computers, Inc., Cupertino, California. Consultant. Established longevity and thermal and acoustic tests for several Apple-approved products. Provided engineering analysis, suggested improvements and provided new designs for existing products to include several printers, the color plotter and various support equipment. Also wrote software in support of the product tests and the engineering analysis, 1983 .
- q. Research Assistant, Department of Mechanical Engineering, Stanford University, Stanford, CA. Investigated the dynamic crack propagation in a beam under various loading types. Developed a finite element program to investigate a Power Law creep earthquake model.
- r. U.S. Army Officer. Positions held:
 - U.S. Army Air Defense School, 1976-1978
 - Analyst, Directorate of Combat Developments
 - Assistant to the Assistant School Commandant
 - Source Selection and Evaluation Board, DIVAD Gun
 - Chief, Admin/Operations Division, Directorate of Training
 - Korea, 1975-1976
 - Executive Officer, Air Defense Battery
 - Platoon Leader

COURSES TAUGHT

All courses listed with an asterisk (*) were conceptualized, planned and developed, and presented. All courses listed without the asterisk were taught based on an existing outline of topics. However, course notes, examples, homework, etc. were developed for presentation to the student.

- a. Academic College of Judea and Samaria (1999-2001)
 - Torat HaHozek 2 (Theory of Strength II)
 - Torat HaHozek 1 (Theory of Strength I)
 - Mechanikat Handasit (Engineering Mechanics)
 - Statikat Mivnim 1 (Structural Engineering I)
 - Dinamikat Mivnim (Structural Dynamics)
- b. Negev Academic College of Engineering (2000-2001)
 - Hozek Homarim II (Strength of Materials II)
- c. Florida International University (1985 - present)
 - Statics
 - Dynamics
 - Applied Mechanics*

- System Dynamics*
 - Engineering Systems II*
 - Kinematics and Mechanism Design*
 - Mechanics and Materials Science
 - Mechanical Vibrations
 - Analysis of Mechanical Systems*
 - Intermediate Analysis of Mechanical Systems*
 - Advanced Analysis of Mechanical Systems (Advanced Computational Engineering Analysis)*
 - Computational Engineering Analysis*
 - Automatic Control Theory
 - Principles of Composite Materials*
 - Synthesis of Engineering Mechanics*
 - Fracture Mechanics*
 - Intermediate Gas Dynamics*
 - Engineer-in-Training Review (EIT) Course-Math Portion*
 - Professional Engineer Review (PE) Course-Mechanical Vibrations and Dynamics Portion*
 - Undergraduate Seminar Course*
 - Concepts in Engineering*
 - Advanced Vibration Analysis*
- d. Standard Fracture Mechanics Specimens*- Guest Lecturer, Graduate Course, Technion, Israel Institute of Technology- 1984.
- e. Teaching Assistant in the Department of Mechanical Engineering, Stanford University, for the following courses:
- Mathematical Methods in Mechanical Engineering (exercises) 1981
 - Theory of Elasticity III (several lectures) 1979
- f. U.S. Army Air Defense School
- Systems, Engineering, Analysis and Management (SEAM) course, blocks of instruction in:
- Fluid Mechanics
 - Propulsion Systems
- g. El Paso Community College 1976-1978
- College Mathematics
 - College Algebra and Trigonometry
- h. U. S. Army troops, various topics 1974- 1976

PROFESSIONAL DEVELOPMENT

- a. NSF/ASEE Professional Development Workshop on Composite Materials, Ft. Worth, TX, June, 1989.
- b. WebCT Workshop on providing courses through the internet, November, 1998 and February, 2002.
- c. Human Participation Protections Education for Research Teams Workshop, NIH/Cancer Center, June 2005
- d. Various ASME related conferences starting in 1995 to 2010
- e. ABET PEV workshop 2006

- f. Various ABET visit related workshops 2008, 2010, 2011, 2012, 2013, 2015, 2016, 2017

RESEARCH ASSOCIATE/VISITING FACULTY SPONSORED

Dr. Mordechai Perl, Visiting Associate Professor, Technion, Israel, 1986-1987.

Mr. Qinghua Chen, Assistant Professor, Zhejiang University, P.R. China, 1991 - 1993.

Dr. Mordechai Perl, Visiting Professor, Technion, Israel, 1991 - 1992.

Dr. Qinghua Chen, Post-doctoral Fellow, 1996-1998.

GRADUATE STUDENTS GUIDED AND GUIDING

Doctor of Philosophy

1. Qinghua Chen - Study on Passive and/or Active Vibration Control by Flexible Structures (Fall 1995).
2. Xiaohua Li – Study of CNT Film and SMA Treatment for Sensing and Structural Vibration Control (Spring 2009).
3. Ricardo Gasparini – (Co-Major Professor) Engineering Analysis in Imprecise Models (Spring 2015)
4. Siavash Rastkar – (Co-Major Professor) Characterization of Homogenized Mechanical Properties of Porous Ceramic Materials Based on Their Realistic Microstructure (Spring 2016)
5. Weiwei Lin – Study of CNT Film Composite for Sensing and Structural Vibration Control (Fall 2016)

Master of Science

1. Vamshi Rhallabandy – The Influence of Autofrettage and Bauschinger Effect on Three Dimensional Stress Intensity Factors for Large Arrays of Radial Internal Surface Cracks in Cylindrical Pressure Vessels (2004)
2. Srinath Kotagiri - The Influence of Autofrettage and Bauschinger Effect on Three Dimensional Stress Intensity Factors for Infinite Arrays of Longitudinal Coplanar Internal Surface Cracks in Cylindrical Pressure Vessels (2004)
3. Nelson Caudill - The Study of Thermal Stresses in a Single Long Elastic Fiber Embedded in an Infinite Matrix (2003)
4. Xiaoling Zhao – The Use of SMA and Temperature Controller for Active Control of Space Flexible Structures (1999).
5. Qin Ma – Stress Concentration and Stress Intensity Factors of a Multi-Eroded, Cracked Autofrettagged, Pressurized Thick-Walled Cylinder (1999).
6. Jianxin Bu - Three Dimensional Effects of Erosion and Crack Emanating from the Erosion in a Thick Walled Cylinder (1997).
7. Hua Fang - The Effect of Erosion Geometry on the SIF of a Crack Emanating from the Erosion in an Autofrettagged, Pressurized, Thick-walled Cylinder (1996).
8. Sandy Helene Straus - Viscous Laminar Flow in a Curved Annular Confocal Pipe of Elliptical Cross-Section (1995).

9. Jianxin Wang - Three Dimensional Stress Intensity Factors for Large Arrays of Radial and Longitudinal Internal Cracks in a Cylindrical Pressure Vessel (1995).
10. Carmen S. Goldberg - Disparity in Basic Sciences and Mathematics of Community College Students Compared to their University Cohorts (1993).
11. Javier Pierola - 3-D Stress Intensity Factors for Thick-walled, Internally Pressurized Vessels: Internal Radial Crack Problems (1993).
12. Nicholas Kokkavessis- 3-D Stress Intensity Factors for Thick-walled, Internally Pressurized Vessels: Internal Longitudinal Crack Problems (1993).

GRADUATE STUDENTS - Research Committees

- | | | |
|------------------------|--------------------------------|------------------------------|
| 1. Zhao Xin* | 12. Eric Gonzalez* | 23. Naveen Singamsetti* |
| 2. Umesh Upadhiaya* | 13. Lijun Niu* | 24. Stephen Wood* |
| 3. Huanyi Zhang* | 14. Flavio Souza-Campos (PhD)* | 25. Ricardo Gasparini (PhD)* |
| 4. Kenneth Robinson* | 15. Aland Santamarina (PhD)* | 26. Tomas Pribanic (PhD) |
| 5. Richard Harshbarger | 16. Jaihind Reddy Maddi* | 27. Tomislav Kosta* |
| 6. Bernardo Donoso* | 17. Amit Datye* | 28. Siavash Rastkar (PhD)* |
| 7. Vincent McNish* | 18. Harindra Narasimha Vedala* | 29. Shervin Tashakori (PhD) |
| 8. Kun Ji* | 19. Peng Chen (PhD)* | 30. Amin Baghalian (PhD)* |
| 9. Ivan Esparragoza* | 20. Rene Leon* | 31. Elnaz Mirtaheri (PhD) |
| 10. Tong Ding* | 21. Tomas Pribanic* | 32. Shanae Powell |
| 11. Ivan Muguercia* | 22. Amanda Vianna* | 33. Ehsan Izadpanahi (PhD) |

* Graduated

UNDERGRADUATE STUDENTS – Senior Design Project

1. Mr. Juan de Cardenas - design and vibration analysis of a pacemaker (Co-Advisor, Dr. K. Wu).
2. Mr. Frank Soto - to design and instrument several vibrations experiments for use in the Mechanical Vibrations course.
3. Mr. Erick Gonzalez - numerical simulation of a ramjet in operation.
4. Mr. Jon Arni Bragason - to design a computer program that will digitize an image of a cross section, determine its centroid, moments of inertia, cross-sectional area and other geometric information used in the study of the geometrical properties of mouse femora.

5. Mr. William Giunta - to design and test several NACA 4-series airfoils with ailerons to include flow visualization in our existing wind tunnel and the effects of ailerons on lift and drag.
6. Ms. Christina Santiago – to design and build an Iocipescu Mode II fracture set-up for use on an Instron machine
7. Mr. Iff Gambetta, Brandon Potens, Jason Hamilton, Patrick Wojcik – to design and build a delivery system for remote sensing device.
8. Ms. Jocelyn Castillo, Ms. Brooke Willin, Mr. Kevin Ward-to design a portable coffee bean harvesting machine.

Research Experience for Undergraduates

1. Mr. Yonatan Rotenberg (2014-15) – measurements of resistance and damping properties of PANI/MWCNT sensors, PU/MWCNT sensors, and other combinations
2. Mr. Kevin Ward (2014-15) – measurements of resistance and damping properties of PANI/MWCNT sensors, PU/MWCNT sensors, and other combinations
3. Ms. Erin Silva (2008) – measurements of resistance and damping properties of CNT sensors
4. Mr. Massimo Nardi (2008) – work on the controller for the SMA/CNT sensor/actuator
3. Mr. Yunieski Rodriguez (2008) – work on use of SMA/PZT material properties for use in sensor/actuator
4. Mr. Lahcen Elaadil (2007) – work on the vibration characteristics of SMA/CNT sensor/actuator

SERVICE ACTIVITIES

College Level – College of Judea and Samaria

- a. **Member of Senior Faculty** 1999-2001. (this body determined the academic direction of the college)
- b. **Member – University Library Board**, 2000--2001.
- g. **Member – University Hiring Board**, 2000--2001. (this body hired new faculty members based on review of credentials and promoted faculty members based on credentials).

University Level - Florida International University

- a. **University Faculty Senator** 1986-1989, 2006-2008.
- b. **Member - University Academic Conduct Review Board**, 1988-1989.
- c. **Member - University Faculty Senate Steering Committee**, 1988-1989.
- d. **Member - University Academic Policies Committee**, 1989-1991.
- e. **Member - University SACS Reaccreditation Subcommittee on Undergraduate Education**, 1989.
- f. **Freshman Advising Group**, 1989-1993

- g. **Member of Academic Forum for Undergraduate Education**, 1990- 1992.
- h. **Search Committee for the University Provost**, 1998-1999.
- i. **College Representative to University Graduate Council**, 2003-2007; Secretary 2005-2006
- j. **Faculty Senate Ad-Hoc Committee on Status of HCET**, 2005-2007
- k. **Member of Organizing Committee of FIU Chapter Sigma Xi**, 2005-2007. *Chapter approved 2007*
- l. **College Representative University SACS Assessment Committee**, 2008-2009
- m. **College Representative CAADS**, 2008- 2009
- n. **College Representative Statewide Faculty Discipline Committee**, 2008-2009
- o. **College Representative-Athletics Liaison Committee** 2009
- p. **Judge, GSAW-Graduate Scholar Forum** 2016, 2017

College Level - Florida International University

- a. **Member, Ad Hoc Committee for the Enhancement of Teaching**, 1987 - 1988.
- b. **Member, Ralph Sanchez Graduate Fellowship Committee**, 1986 - 1987.
- c. **Member, Engineer-In-Training (EIT) Examination Committee**, 1988 - 1989.
- d. **Member, Vice Chair and Chair of Faculty Council**, 1990 - 1992, 1997-1998.
- e. **Member, FIU Gateway Coalition-Undergraduate Engineering Program Revision**, 1992 - 1995.
- f. **Member, Ad Hoc Committee on Ethics**, 1995.
- g. **Member, Ad Hoc Committee on DOD Proposal Evaluation**, 1996.
- h. **Member and Chair, College Tenure and Promotion Committee**, 1996-1998, 2001-2002.
- i. **Member, College Committee on Distance Learning**, 1998.
- j. **Member, Ad Hoc Committee on Faculty Governance**, 2003-2004
- k. **Member of Faculty Council on Governance**, 2004-2007. Vice-Chair: 2005-2006, Chair 2006-2007
- l. **Chair UPD/UA Committee**, 2008-2009. Led to successful re-accreditation of college undergraduate programs
- m. **Member, College Curriculum Committee**. 2016-2017.

Department Level- Florida International University

- a. **Chairman and/or Member - Undergraduate Mechanical Engineering Program Review Committee**, 1985 - 1996, 2001-2004, 2007-9, 2012-present.

- b. **Member - Graduate Mechanical Engineering Program Review Committee**, 1987 - 1998, 2001-2004, 2010-2017.
- c. **Member- Mechanical Engineering Program's ABET Accreditation Preparation Team-** 1987, 1990, 1996, 2002, 2004-8, 2012-2017. **Chair** 2012-2013, 2017-present.
- d. **Chairman, Library Committee**, 1987 - 1990.
- e. **Member and/or Chair of Search and Screen Committee**, 1989 – 1995, 1999, 2001, 2004, 2014-15, 2018.
- f. **Coordinator of Graduate Program**, 1990-5. **Renamed Graduate Program Director**, 2002-2004, 2009-2016.
- g. **Course Scheduling- Graduate Program**, 1989 - 1997, 2001-2004, 2009-2017.
- h. **Member and/or Chairman of Tenure and Promotion Committee**, 1991-1999, 2002-03, 2005-08, 2014-present.
- i. **Member and Chair Dissertation Advisor Status Committee**: 2005-2007, 2010-2017.
- j. **Member of Department Strategic Plan Committee**: 2005-2008
- k. **Member of Department Curriculum Committee**: 2007-2008, 2010-present

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- a. American Society of Mechanical Engineers-1984 to present
- b. Tau Beta Pi - The Engineering Honors Society-1971 to present
- c. ASM, International, 1985
- d. National Academic Advising Association (NACADA), 1990-1993
- e. Materials Research Society, 1996
- f. Israel Association for Theoretical and Applied Mechanics-1984 to present
- g. American Society of Engineering Education, 1998.
- h. Sigma Xi research society; 1971-1973, 2005 to present

SESSIONS CHAIRED AND OTHER PROFESSIONAL ACTIVITIES

- a. **Session Chair**, IMECE 2009, Session 15-8-2, Processing, Characterization, Modeling and applications of Hybrid Material Systems II, November 2009.
- b. **Organizing Committee Member** of the First Mediterranean Conference on Modern Trends on Seismic Engineering and Structural Design, Ariel University Center in Samaria, Ariel, Israel, October 2007.

- c. **Chairman**, Session 5, First Mediterranean Conference on Modern Trends on Seismic Engineering and Structural Design, Ariel University Center in Samaria, Ariel, Israel, October 2007.
- d. **Organizing Committee and Founding Member** of FIU Chapter Sigma Xi – 2006-2007.
- e. **Evaluator** for Materials Advantage FIU Chapter Student Competition poster session, 2006
- f. **Chairman**, *Session 5*, Gun Tubes 2005 Conference, Oxford, UK, April 2005.
- g. **Chairman**, *General Engineering* Session, IEEE SoutheastCon'05, April 2005.
- h. **Chairman**, Session on *Robot Control*, 2002 Florida Conference on Recent Advances in Robotics, 2002.
- i. **Member**, Technical Committee of 1997 Florida Conference on Recent Advances in Robotics, 1997.
- j. **Chairman**, Session on *Robot Control*, 1997 Florida Conference on Recent Advances in Robotics, 1997.
- k. **Poster Session Chair** replacing absent chair, 1995 SPIE Conference.
- l. **Member**, Student Competition Committee, 11th Southern Biomedical Engineering Conference, 1992.
- e. **Chairman**, Session on the *Property of Bone*, Ninth Southern Biomedical Engineering Conference, 1990.
- f. **Moderator**, Topical Session on *Advising Specialized Populations*, Thirteenth NACADA Conference, 1989.
- g. **Interviewed by Mr. Bud Fraga, WSVN-TV**, December 27, 1988 on the fatigue and fracture problems encountered by aging aircraft.
- h. **Chairman**, Session on *Non-Metallic Fractures*, American Society of Metals International Conference and Exposition on Fatigue, Corrosion Cracking, Fracture Mechanics and Failure Analysis 1985.

EDITORIAL BOARD/ARTICLE AND PROPOSAL REVIEWER/JUDGE

- a. **Editorial Board-*The Open Construction and Building Technology Journal*: 2009-**
- b. **Editorial Board- *Journal of Modern Civil and Structural Engineering*: 2016-**
- c. **Associate Editor for *International Journal of Modeling and Simulation*: 1995-1999.**
- d. **Editorial Board for *NACADA Journal* (National Academic Advising Association): 1990-1993.**
- e. **Reviewer**

Composite Structures, 2017
Engineering Fracture Mechanics, 2014, 2017 (2 papers)
Coatings, 2017
ICCMSE 2017, 2017
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 2002-2003; 2005-2012; 2014
The Open Materials Science Journal, 2014
The Open Civil Engineering Journal, 2014, 2015
International Journal of Mathematics, 2014
International Journal of Nanomanufacturing, 2013
Reviewer for book by Kypuros on System Dynamics, 2011
Sensors and Actuators, 2013
Sensors, 2012, 2014, 2015
Gun Tubes 2011 Conference (1 paper)
Sensors, Special Issue on State of the Art Sensor Technology in Portugal, 2011
Inverse Problems in Science and Engineering, 2010
International Journal of Fatigue, 2010,
ASME IDETC/CIE 2008 Conference, 2008 (2 papers)
ASME PVP2008 Conference, 2008
Applied Mechanics Review, 2009
Nanotechnology, 2008
Journal of Physics D, 2008
Journal of Ocean Technology, 2007
Reviewer for Multimedia Educational Resource for Learning and Online Teaching (MERLOT),
 2004-
Smart Materials and Structures, 2006;
Gun Tubes 2005 Conference (5 papers);
IEEE SoutheastCon 2005 Conference (10 papers)
Metallurgical and Materials Transactions A, 2005;
Review of McGraw-Hill's Mechanics of Materials by Beer, Johnston and DeWolfe: 2005, 2006
Materials Science and Engineering Part A: Structural Materials, Microstructure and Processing:
 2003;
International Journal of Solids and Structures: 1986, 1987, 1990-1993, 1995-1997, 2000;
Journal of the SESA: 2000.
Journal of Sound and Vibration, 1998; 2005; 2007
ASCE Journal of Engineering Mechanics, 1998;
International Journal of Modeling and Simulation: 1995-1998, 2004;
ISROMAC-5: 1993;
14th Biennial ASME Conference on Mechanical Vibration and Noise: 1993;
ASME Journal of Vibrations and Acoustics: 1993;
National Academic Advising Journal (NACADA): 1990 - 1993;
3rd ASME-JSME Thermal Engineering Joint Conference: 1990;
Heat Transfer Proceedings - WAM, ASME: 1989;
Journal of Electronic Packaging: 1988;
Engineering Fracture Mechanics: 1984;
Journal of Applied Mechanics: 1982;

f. Proposal Reviewer/Consultant

National Science Foundation, 1996, 2002;
National Institutes of Health: 1993-1995;
Army Research Office: 1992; 2006 (2); 2007 (2); 2012 (1).

g. Science Fair Judge

Dade County Public Schools Science Fair: 1994-1996, 1998, 2005-2009;
State of Florida Science Fair: 1997-1998.

g. External Tenure and Promotion Reviewer

Razvan Rusovici, Florida Institute of Technology, Melbourne, Florida
 Amer Hameed, Cranfield University, Shrivenham UK
 Boris Blustoski, Ariel University Center, Ariel, Israel
 Rivka Gilat, Ariel University Center, Ariel, Israel
 Yakov Ishakov, Ariel University Center, Ariel, Israel
 Rivka Gilat, Ariel University Center, Ariel, Israel
 Yuri Ribakov, Ariel University Center, Ariel, Israel

HONORS AND AWARDS

- a. **Named College of Engineering Awardee in the area of Outstanding Service, 2016**
- b. **Named FIU Top Scholar Awardee, 2010**
- c. **Named ASME Fellow January, 2010**
- d. Paper 'Multiwalled carbon nanotube film for strain sensing' has been selected to be part of the Most Accessed of 2008, and can be found at <http://herald.iop.org/NANO-MostAccessed2008/m319/crk/269720/link/2289>.
- e. **Named ABET Mechanical Engineering Program Evaluator 2006-ongoing.**
- d. **Named SRAI Research Affiliate, Honors College FIU, 2006-2008**
- e. **Dissertation Advisor Status conferred, FIU, June 2005-Fall 2012; renewed January, 2013-Fall 2020**
- f. **Honored by IEEE SoutheastCon '05 for Outstanding Contributions Made to the Conference**
- g. **Graduate Faculty Status conferred, FIU, 2003**
- h. **Honored by FIU for Outstanding Performance in Research Funding, 1998**
- i. **FIU Outstanding Performance Award, 1996**
- i. **Who's Who Among America's Teachers, 1994, 2004-2016**
- j. **2nd Place in Best Paper Competition in 1994 GSW/ASEE Conference**
- k. **Winner of FIU Teacher Incentive Program (TIP), 1994**
- l. **FIU Excellence in Research Award, 1994**
- n. **FIU Service Award, 1992**
- o. **FIU Excellence in Undergraduate Advising Award, 1990**
- p. **FIU Excellence in Undergraduate Teaching Award, 1989**
- q. **Awarded EIT Status, 1987**
- r. **Lady Davis Post-Doctoral Fellowship (Israel), 1983 -1984 and 1984-1985**
- s. **Alexander von Humboldt Fellowship (West Germany), 1983-1984**

- t. Elected to **Sigma Xi**, The Scientific Research Honor Society, 1972; reactivated August 2005
- u. Elected to **Tau Beta Pi** - the National Engineering Honor Society, 1972;
- v. Elected to **Sigma Gamma Tau** - the National Aerospace Engineering Honor Society, 1970.

LIST OF PUBLICATIONS

THESES

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11. Chen, Q. and Levy, C., "Simplified Model for Combined Applications of Viscoelastic Material and Shape Memory Alloy to Vibration Control," **Proceedings** of the SPIE, San Diego, CA. 26 February-3 March 1995. Vol. **2443**, pp. 481-490.
12. Levy, C. and Chen, Q., "Vibration Characteristics of Partially Covered Double Sandwich Cantilever Timoshenko Beam," **Proceedings** of the Third International Congress on Air -and Structure - Borne Sound and Vibrations, Montreal, Canada, 13-15 June 1994, Vol. **1**, pp. 433-440.

13. Tansel, I.N., Trujillo, M., Levy, C., Himmel, B. and Board, B., "Micro Tool Inspection by Laser Beam Reflection and the Abductory Induction Mechanism (AIM)," **Proceedings** of the First S .M. Wu Symposium on Manufacturing Science, Evanston, IL, 27-28 May 1994, Vol. **1**, pp. 363-367.
14. Tansel, I.N., Li, W., Paz, E., Levy, C., Himmel, B. and Board, B ., "Automated Nonlinear Calibration of Machine Vision Systems for Dimensional Measurement", **Proceedings** of the First S.M. Wu Symposium on Manufacturing Science, 27-28 May 1994, Vol. **1**, pp. 231-235.
15. Gordon, K. R., Forbes, N. and Levy, C ., "The Correlation of Sexually Dimorphic Changes in Serum Cortecosterone with Mechanical Characteristics of Juvenile Mouse Femora," *Biomedical Engineering-Recent Developments: Proceedings* of the Thirteenth Southern Biomedical Engineering Conference, Washington, DC, 16-17 April 1994, pp. 852-855.
16. Heimer, M. and Levy, C., "Gateway Coalition Curriculum Revision: A Minimized Core Course Approach," **Proceedings** of the 1994 Centennial Meeting of the Gulf-Southwest Section of ASEE, Southern University, Baton Rouge, LA, 24-25 March 1994, Vol. **2**, pp. 866-880.
17. Heimer, M., Levy, C. and Hopkins, G., "Creating a Streamlined Gateway Core Sequence," **Proceedings** of the First Annual Gateway Engineering Education Coalition Conference, Drexel University, Philadelphia, PA, 15-17 October 1993, pp. 79-90.
18. Levy, C., Perl, M. and Gordon, K. R., "Geometrical, Mechanical, and Structural Adaptation of Mouse Femora Exposed to Different Loadings," **Proceedings** of the Eleventh Southern Biomedical Conference, Memphis, TN, 24 October 1992, pp. 85-88.
19. Chen, Q. and Levy, C., "A Simple Method of Structural Parameter Modification for a MDOF System," **Proceedings** of the Second International Congress on Recent Developments in Air - and Structure - Borne Sound and Vibrations, Auburn, AL, 4-6 March 1992, Vol. **3**, pp. 1603-1610.
20. Gordon, K. R., Levy, C., Weeks, O. I. . Rodriguez, J. and C. Rodriguez, E. "Mechanical Loading and Psychological Stress as Variables in the Development of the Femur of Juvenile Mice." **Proceedings** of the Tenth Southern Biomedical Engineering Conference, Atlanta, GA, 18-21 October 1991, pp. 186-187.
21. Levy, C., Goldberg, C . and Ray, G., "Advising Mechanical Engineering Students at Florida International University," **Proceedings** of the Thirteenth NACADA National Conference in Houston, TX, 15-18 October 1989, pp. 45-46.
22. Levy, C ., Gordon, K. R. and Perl, M., "Factors Influencing Load Carrying Capacity of Mouse Femora due to Exercise," **Proceedings** of the Eighth Southern Biomedical Engineering Conference, Richmond, VA, 13 - 15 October 1989, pp. 109-111.
23. Perl, M., Levy, C. and Gordon, K. R., "Changes in Geometrical and Mechanical Properties in Mice Femur Due to Increased Applied Mechanical Loadings, "**Proceedings** of the Seventh University of California, Davis, Biomedical Engineering Symposium, 27-28 April 1989.
24. Levy, C., Perl, M. and Yarnitsky, Y., "Controlled Crack Propagation for Stone Cutting," **Proceedings** of the International Conference and Exposition on Fatigue, Corrosion Cracking, Fracture Mechanics and Failure Analysis, American Society of Metals, Salt Lake City, UT, December 1985, The Mechanism of Fracture, pp. 359-363.

PUBLISHED ABSTRACTS

1. 4th International Conference and Exhibition on Materials Science & Engineering, September 14-16, 2015 Orlando, Florida, USA: Preparation of Polyurethane/Buckypaper composites films and characterization of their Structural Vibration Damping and Strain Sensing Properties, Weiwei LIN, Yonatan ROTENBERG, Hadi FEKRMANDI, Kevin P. WARD, Cesar LEVY, Florida International University (presentation and poster session)
2. Ma, Q., Levy, C., and Perl, M., "The Bauschinger Effect on 3-D SIFs for Networks of Radial and Longitudinally-Coplanar Semi-Elliptical Internal Surface Cracks In Autofrettaged Pressurized Thick-Walled Cylinders", ICCES'08 Conference Proceedings, Honolulu, HI, 15-21 March 2008, on CD Paper# ICCES0820071016026 (1 page).
3. Levy, C., Perl, M., and Ma, Q., "Equispaced Multiple Axial Erosions' Influence On The SIF Of A 3-D Crack Emanating From The Most Dangerous Erosion In Autofrettaged Pressurized Cylinders", **Proceedings** of the 28th Israel Conference on Mechanical Engineering, BenGurion University, Beer Sheva, Israel, June 2000, pp. 415-417.
4. Chen, Q., Zhao, X., Pinapaka, S., Garcia, D. and Levy, C., "Experimental Analysis of Temperature Effects of Beam with Smart Damping and Heater," **Proceedings** of the ICCE/5 Conference, Las Vegas, NV, 5-11 July 1998, pp. 171-172.
5. Chen, Q. and Levy, C., "Cantilever Beam with Partially Covered Damping and SMA," **Proceedings** of the 25th Midwestern Mechanics Conference, Rapid City, SD, 21-24 September 1997, pp. 6.1-6.4.
6. Chen, Q. and Levy, C., "Temperature Effects on Smart Damping Treatment, " **Proceedings** of the ICCE/3 Conference, New Orleans, LA, 21-26 July 1996, pp. 159-160.
7. Levy, C. and Chen, Q., "Improved Differential Equations of a Partially Covered Double Sandwich Cantilever Beam," **Proceedings** of the Joint ASCE-ASME-SES Conference, Charlottesville, VA, 6-9 June 1993, Vol. **II**, pg. 665.
8. Gordon, K. R., Levy, C., Forbes, N. and Rodriguez, J., "Adaptive Modeling in Experimental Mouse Femora," **Proceedings** of the American Society of Zoologists, Atlanta, GA, 27-30 December 1991.
8. Gordon, K. R. and Levy, C., "Developmental Changes in Mouse Femora Exposed to Different Activity Regimens with Emphasis on Structural and Mechanical Properties: I," **Proceedings** of the Ninth Southern Biomedical Engineering Conference, Miami, FL, 17-18 November 1990.
10. Gordon, K. R. and Levy, C., "Developmental Changes in Mouse Femora Exposed to Different Activity Regimens with Emphasis on Structural and Mechanical Properties: II," **Proceedings** of the Ninth Southern Biomedical Engineering Conference, Miami, FL, 17-18 November 1990.
11. Levy, C., "An Iterative Procedure, Based on the Dunkerley Method, for Determining the Natural Frequencies of Vibrating Systems," **Proceedings** of the Twenty-First Midwestern Mechanics Conference, Houghton, Michigan-16 August 1989, Vol. **15**, pp. 343-344.
12. Levy, C., Gordon, K. R. and Perl, M., "Geometrical and Mechanical Changes in Mice Femora due to Increased Applied Loading," **Proceedings** of the Twenty-First Midwestern Mechanics Conference, Houghton, Michigan, 13-16 August 1989, Vol. **15**, pp. 177-178.
13. Levy, C., Gordon, K. R. and Perl, M., "Factors Influencing Load Carrying Capacity of Mouse Femora due to Exercise," *Biomat., Art. Cells, Art. Org.*, Vol. **17(4)**, pg. 522 (1989).

MANUSCRIPTS IN PREPARATION

1. Li, X. and Levy, C., "Fabrication, Properties and Applications", *in preparation for Sensors and Actuators*
2. Perl, M., Ma, Q. and Levy, C., "The Interaction between a Quarter-Circle Corner Crack and a Non-Aligned Similar Sized Surface Crack in An infinitely large Plate under Uniaxial Tension", in preparation.

BOOK CHAPTERS IN PREPARATION

1. Li, X., Levy, C., Datye, A., and Elaadil, L., "Static And Dynamic Strain Sensing Via Multi-Walled Carbon Nanotube Film" submitted as a book chapter for *Modern Trends in Structural Engineering and Seismic Design*.

PUBLISHED REPORTS

1. Web-Based Instruction and Learning: Responding to K-14 Customer Needs. NASA Report CP-2003-210722, McCarthy, Grabowsky, Koszalka, and Peck, editors, pp. 61-75 (December 2003).

REPORTS

1. Fourth Year and Final Report to ARO for the CNT/Polymer Composite project, August 2015
2. Third Year Report to ARO for the CNT/Polymer Composite Project, August 2014.
3. Second Year Report to ARO for the CNT/Polymer Composite Project with X. Kong, August 2013.
4. First Year Report to ARO for the CNT/Polymer Composite Project with X. Kong, August 2012.
5. Fourth Year and Final Report to ARO for the CNT/SMA Project with A. Agarwal, August 2009.
6. Third Year Report to ARO for the CNT/SMA Project with A. Agarwal, August 2008
7. Second Year Report to ARO for the CNT/SMA Project with A. Agarwal, August 2007
8. First Year Report to ARO for the CNT/SMA Project with A. Agarwal, August 2006.
9. Intermediate Report and Final Report to the Ministry of Absorption in Science (ISRAEL) for the Project on Fracture of Thick Walled Pressure Vessels, March 2001 and August 2001.
10. Final Reports to NASA Ames for the ALLSTAR Project with M.A. Ebadian and G. Roig, September 1999.
11. Semi-Annual Reports to NASA LaRC for the Vibration Project with K. Wu and Q. Chen, July 1996; January, 1997; July, 1997; April, 1998; November, 1998; July, 1999.
12. Monthly Reports to NASA Ames on ALLSTAR project with M.A. Ebadian and G. Roig, from August, 1995-July, 1999.
13. Last Year and Final Report to ED-MSIP project with T.C. Yih, M.A. Ebadian and G. Roig, October 1996.
14. Continuation Reports to ED-MSIP project with T.C. Yih, M.A. Ebadian and G. Roig, June 1994; June 1995.
15. Fourth Quarterly and Final Report for Year 5 to DOE on DOE-MUTEC project, with T. C. Yih and M. A. Ebadian, December 1995.

16. Quarterly Reports for Year 5 to DOE on DOE-MUTEC project, with T. C. Yih and M. A. Ebadian, January, April and July 1995.
17. Final Report for the FIU-PREP project (1992-1994), with T. C. Yih, M. A. Ebadian. and G. Roig, August 1994.
18. Quarterly Reports for Year 4 to DOE on DOE-MUTEC project, with T. C. Yih and M. A. Ebadian, January, April, July and October 1994.
19. Interim and Final Report for the AEPI-PREP project (1992-1993), with M. A. Ebadian (PI), T.C. Yih and G. Roig, March and September 1993.
20. Quarterly Reports for Year 3 to DOE on DOE-MUTEC project, with T. C. Yih and M. A. Ebadian, January, April, July and October 1993.
21. Quarterly Reports for Year 2 to DOE on DOE-MUTEC project, with T. C. Yih and M. A. Ebadian, January, April, July and October 1992.
22. Final Report to FHTIC on Dual Lumen Pressure Monitoring Catheter with M. A. Ebadian, January 1992.
23. Quarterly Reports to FHTIC on Dual Lumen Pressure Monitoring Catheter with M. A. Ebadian, March, June, October 1991, and January 1992.
24. Quarterly Reports for Year I to DOE on DOE-MUTEC project, with T. C. Yih and M. A. Ebadian, January, April, July, and October 1991.
25. Failure Analysis of Tempered Glass, Project No. C-7028 to Mr. J. Clarke, Spillis. Candela and Partners, Inc., with M. Perl, April 1987.
26. Several reports submitted to Supervisor, Engineering - Apple Computer Inc. dealing with longevity, thermal testing, equipment malfunctions of Apple printers and Apple support equipment, 1983.
27. Report to Dr. Amos Nur, Department of Geophysics, Stanford University, on the Finite Element Code written to support his research work in power law creep earthquake model, 1982.
28. Several reports submitted to the U.S. Army Research Office supporting Grant DAAG 29-78-G-0086, with G. Herrmann, 1978 - 1981.

VIDEOTAPES CREATED IN SUPPORT OF ENGINEERING EDUCATION

Under Dr. Levy's directorship of the DOE MUTEC grant, 51 2-hour tapes were created in the areas of Mathematics, Chemistry, Statics, Dynamics, Mechanics of Materials, Thermodynamics, Fluid Mechanics, Materials Engineering, Electrical Engineering, Fields and Motors, and Engineering Economics. Tapes are available for student use at the Florida International University Library .

Through the DOE MUTEC grant, 15 2-hour videotapes were created to cover the areas of applied geometry, trigonometry, differential and integral calculus, and differential equations for use by students as review material in their engineering sciences classes and as review material for the EIT examination. Dr. Levy prepared and delivered the lectures.

As a result of the DOE MUTEK grant, 4 2-hour videotapes were created to cover the area of Dynamics for use by students as review material in Dynamics and Kinematics and Mechanism Design as well as for the EIT examination. Dr. Levy prepared and delivered the lectures.

ELNs CREATED IN SUPPORT OF ENGINEERING EDUCATION

As a result of the Department of Education's MSIP program (ED-MSIP), Electronic Lecture Notes (ELNs) in Introduction to Engineering, Statics, Dynamics, Circuits, Materials in Engineering, Fluid Mechanics were created under the directorship of Dr. Cesar Levy. These ELNs are available for use on the Florida International University's Engineering Information Center network.

As a result of the ED-MSIP, ELNs for Introduction to Engineering, Statics, Dynamics were created from Dr. Cesar Levy's notes.

WEBSITE CREATED IN SUPPORT OF ENGINEERING EDUCATION

As a result of NASA's Lifelong Learning in Aeronautics Project, a website (<http://www.allstar.fiu.edu/>) containing over 950 pages was created under the directorship of Dr. Cesar Levy. The materials created are in the areas of History of Aeronautics, Principles of Aeronautics, Careers in Aeronautics and Research Areas in Aeronautics. The site includes a teachers' guide on how to use the site. The site is targeted to students in grades 4-14. **Website is achieving over two million hits per month during the academic calendar.**

As a result of the NASA ALLSTAR project, Dr. Levy's notes on hydraulics were converted for use on the website. Twenty-two sections were created from the notes.

Website has been recognized by the BBC in 1999, NSTA in 2001, Encyclopedia Britannica in 2006 and given its iGuide award.

PRESENTATIONS

PRESENTATIONS AT ENGINEERING RELATED CONFERENCES

1. 2018 AIAA Aviation and Aeronautics Forum and Exposition, Atlanta, Georgia, 25-29 June 2018, "Effects of Armament Placement on Nonlinear Dynamic Behavior of High-aspect Ratio Wing Due to Shooting and Blast-Induced Gust", Session FD-28, Flow-Induced Flutter: Advances in Modeling, Experiments and Applications II, with Mardanpour, P., Izadpanahi, E., Rastkar, S., Calastawad, S..
2. The 2018 PVP Conference, Prague, the Czech Republic, July 2018, "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", with Perl, M., and Ma, Q.
3. The 2017 ASME IMECE Congress, Tampa, FL, November, 2017, "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", with Perl, M., and Ma, Q.
4. The 2016 PVP Conference, Vancouver, CA, July 2016, "Three-Dimensional Interaction between a Quarter-Circle Corner Crack and a Non-Aligned Semi-Elliptical Surface Crack in an infinitely large Plate under Tension", with Perl, M., and Ma, Q.
5. 4th International Conference and Exhibition on Materials Science & Engineering September 14-16, 2015 Orlando, Florida, USA: Preparation of Polyurethane/Buckypaper composites films and characterization of their Structural Vibration Damping and Strain Sensing Properties, Weiwei LIN,

- Yonatan ROTENBERG, Hadi FEKRMAND, Kevin P. WARD, Cesar LEVY, Florida International University (presentation and poster session)
6. The 5th Annual World Congress of Nano Science & Technology-2015 (Nano S&T-2015), Xi'an, China, September 24-26:Preparation of Buckypaper/DYAD/Polyaniline/MWCNT composites films and characterization of their Structural Vibration Damping, Weiwei LIN, Yonatan ROTENBERG, Hadi FEKRMAND, Kevin P. WARD, Cesar LEVY, Florida International University (poster session). Also: <http://www.bitcongress.com/nano2015/ScientificProgramme.asp>
 7. ICPVT-14 conference, Shanghai, China, 23-26 September 2015, "The Effects of Crack Ellipticity on the Mode I SIFs of a Simulated Eroded Pressurized Cylinder", with Q. Ma, and M. Perl.
 8. The ICPVT-14 conference, Shanghai, China, 23-26 September 2015, "3-D Interaction of a Corner Flaw with a Non-Aligned Surface Flaw in an Infinitely Large Plate under Tension", with Q. Ma, and M. Perl.
 9. The 2015 PVP Conference, Boston, MA, July 2015, "Crack Non-circularity and Finite Erosion Effects on the 3D SIFs of a Bauschinger Modified Pressurized Thick-Walled Cylinder", with Q. Ma, and M. Perl.
 10. The 2014 ASME PVP Conference, Anaheim, CA, July, 2014, "The Combined Effect of a Finite Axial Erosion with Bauschinger Modified Autofretage on the 3D SIFs of Pressurized Cylinders", with Q. Ma, and M. Perl.
 11. The 2013 ASME PVP Conference, Paris, France, July, 2013, "An LEFM Based Study on the Interaction Between an Edge and an Embedded Parallel Crack", with Q. Ma, and M. Perl.
 12. The 2012 ASME PVP Conference, Toronto, Ontario, Canada, July, 2012, "Bauschinger Effect on the SIFs of a Semi-Elliptical Crack Emanating from an Erosion at the Bore of a Fully Autofretted Pressurized Cylinder", with Q. Ma, and M. Perl.
 13. The 2011 ASME PVP Conference, Baltimore, MD, July, 2011, "Stress Concentration and Stress Intensity Factors for Pressurized Eroded Partially Autofretted Thick Walled Cylinders with Bauschinger Effect", with Q. Ma, and M. Perl.
 14. The 2010 ASME PVP Conference, Bellevue, WA, July, 2010, "Stress Concentration and Stress Intensity Factors for Pressurized Eroded Autofretted Thick Walled Cylinders with Bauschinger Effect", with Q. Ma, and M. Perl.
 15. The IMECE2009 Conference, Lake Buena Vista, FL, Nov. 2009, "A Multifunctional MWCNT Composite: Strain Sensing, Damping and Application to Structural Vibration Control", with Li, X., Li, M., Keshri, A.K., and Agarwal, A.
 16. The 2009 ASME PVP Conference, Prague, The Czech Republic, July, 2009, "The Influence of the Bauschinger Effect on the Combined 3-D Stress Intensity Factors for Networks of Cracks in Partially Autofretted Thick-Walled Cylinder", with M. Perl, and Q. Ma.
 17. NSF CMMI 2009, Honolulu, HI, 22-25 June 2009, "Multifunctional MWCNT for structural vibration control: sensing, damping and mathematical modeling", with X. Li (Exhibit Hall III, paper A86).
 18. NSTI- Nanotech Conference, Houston, TX, 3-7 May 2009, "Multi-walled Carbon Nanotube Film as Strain Sensors for Structural Vibration Control", with X. Li, C. Levy, A. Agarwal, A.K. Keshri.
 19. ICCES'08 Conference, Honolulu, HI, March, 2008, "The Bauschinger Effect on 3-D SIFs for Networks of Radial and Longitudinally-Coplanar Semi-Elliptical Internal Surface Cracks In Autofretted Pressurized Thick-Walled Cylinders", with Q. Ma and M. Perl.

20. MTSESD2007 Conference, Ariel, Israel, October 2007, "Structural health monitoring via multi-walled carbon nanotube film", with X. Li.
21. NSTI- Nanotech Conference, Santa Clara, CA, 20-24 May 2007, "Multi-walled Carbon Nanotube Film as Strain Sensors for Structural Vibration Control", with X. Li, C. Levy, and L. Elaadil.
22. The 2006 ASME PVP Conference, Vancouver, British Columbia, July, 2006, "The Influence of the Bauschinger Effect on the Combined 3-D Stress Intensity Factors for Internal Longitudinal Coplanar Cracks in a Fully or Partially Autofrettaged Thick-Walled Cylinder", with M. Perl, and S. Kotagiri.
23. The 2005 IMECE Conference, Orlando, FL, November 2005, "The Influence Of The Bauschinger Effect On The Combined Stress Intensity Factors for 3-D Internal Radial Cracks In a Fully or Partially Autofrettaged Gun Barrel", with M. Perl, and V. Rallabhandy.
24. The 2005 ASME PVP Conference, Denver, CO, July 2005, "The Influence Of The Bauschinger Effect On The Stress Intensity Factors for a Radially Cracked Autofrettaged Thick-Walled Cylinder", with M. Perl, and V. Rallabhandy.
25. The 2005 ASME PVP Conference, Denver, CO, July 2005, "The Influence Of Autofrettage With Bauschinger Effect On The SIFs Of Multiple Longitudinal Coplanar Cracks In Pressurized Cylinders", with M. Perl, and S. Kotagiri.
26. The GT2005 Conference, Oxford, UK, April, 2005, "The Influence of the Bauschinger Effect on 3-D Stress Intensity Factors for Internal Radial Cracks in a Fully or Partially Autofrettaged Gun Barrel", with M. Perl, and V. Rallabhandy.
27. The 2002 ASME PVP Conference, Vancouver, British Columbia, August, 2002, "The Influence of Finite Three Dimensional Axial Erosions on the Fatigue Life of Partially Autofrettaged Pressurized Cylinders", with M. Perl, and Q. Ma.
28. The 2001 ASME PVP Conference, Atlanta, GA, July, 2001, "The Influence of a Finite Three Dimensional Axial Erosion on the Fatigue Life of Partially Autofrettaged Pressurized Cylinders", with M. Perl, and Q. Ma.
29. The Mechanical Engineering Conference, Beer Sheva, ISRAEL, June, 2000, "Equispaced Multiple Axial Erosions' Influence On The SIF Of A 3-D Crack Emanating From The Most Dangerous Erosion In Autofrettaged Pressurized Cylinders", with M. Perl, and Q. Ma.
30. The 2000 ASME PVP Conference, Seattle, WA, July, 2000, "The Three Dimensional Influence of Multiple Axial Erosions on the Fatigue Life of Autofrettaged Pressurized Cylinders", with M. Perl, and Q. Ma.
31. The 1999 ASME PVP Conference, Boston, MA, August, 1999, " The Influence of Multiple Axial Erosions on the Fatigue Life of Autofrettaged Pressurized Cylinders," with M. Perl and Q. Ma.
32. The ICCE/5 Conference, Las Vegas, NV, July, 1998, "Experimental Analysis of Temperature Effects of Beam with Smart Damping and Heater," with Q. Chen, X. Zhao, S. Pinapaka, and D. Garcia.
33. The 1998 ASME PVP Conference, San Diego, CA, July, 1998, "Three Dimensional Erosion Geometry Effects on the Stress Intensity Factors of an Inner Crack Emanating from an Erosion in a Pressurized Autofrettaged Thick-Walled Cylinder," with M. Perl and J. Bu.

34. The 25th Midwestern Mechanics Conference, Rapid City, SD, September, 1997, "Cantilever Beam with Partially Covered Damping and SMA," with Q. Chen.
35. The 1997 ASME PVP Conference, Orlando, FL, July, 1997, "Erosion Geometry Effects on the Stress Intensity Factors of an Inner Crack Emanating from an Erosion in a Pressurized Autofretted Thick-Walled Cylinder," with M. Perl and H. Fang.
36. Invited Lecture-NASA Langley Research Center, Langley, VA, February, 1997, "Vibration Control for Flexible Structures by Means of Viscoelastic Damping and Shape Memory".
37. The 1996 Fall MRS Conference, Boston, MA, December, 1996, "Experimental Analysis of Smart Structure with Damping Treatment and SMA," with Q. Chen.
38. The ICCE/3 Conference, New Orleans, LA, July, 1996, "Temperature Effects on Smart Damping Treatment," with Q. Chen.
39. The 1996 ASME/JSME PVP Conference, Montreal, Canada, July, 1996, "Interaction Effects on the 3-D Stress Intensity Factor of Combined Arrays of Radial and Longitudinal Coplanar Cracks in an Internally Pressurized Thick-Walled Cylinder," with M. Perl and J. Wang.
40. Invited Lecture-The Pearlstone Center for Aeronautical Engineering Studies, Department of Mechanical Engineering, March . 1996, "Geometrical. Mechanical, Structural and Sexual Adaptation of Mouse Femora Exposed to Different Loadings."
41. The 1995 ASME/JSME PVP Conference, Honolulu, HI, July, 1995, "Three-Dimensional Interaction Effects in an Internally Multicracked Pressurized Thick-Walled Cylinder. Part II - Longitudinal Coplanar Crack Arrays," with M. Perl and N. Kokkavassis.
42. The 1995 ASME/JSME PVP Conference, Honolulu, HI, July, 1995, "Three-Dimensional Interaction Effects in an Internally Multicracked Pressurized Thick-Walled Cylinder. Part I - Radial Crack Arrays," with M. Perl, and J. Pierola .
43. The 1995 North American Conference on Smart Materials and Structures (SPIE), San Diego. CA, March, 1995, "Active Vibration Control of Elastic Beam by Means of a Shape Memory Alloy (SMA) Layers." with Q. Chen.
44. The 1995 North American Conference on Smart Materials and Structures (SPIE), San Diego, CA, March, 1995, "Simplified Model for Combined Applications of Viscoelastic Material and Shape Memory Alloy to Vibration Control," with Q. Chen.
45. Artificial Neural Networks in Engineering (ANNE'94) Conference, St. Louis, MO, November 1994, "Crack Growth Detection and Estimation of Depth by Monitoring Acoustic Emission Activity," with C . Li, R. Carballo, P. Kohlert, R.H. Davis. M. Trujillo and I.N. Tansel.
46. The Fall 1994 Materials Research Society Meeting, Boston, MA, November 1994. "Smart Damping Treatment for Flexible Structure," with Q. Chen.
47. Third International Congress on Air - and Structure - Borne Sound and Vibrations, Montreal, Canada, June 1994, "Vibration Characteristics of Partially Covered Double Sandwich Cantilever Timoshenko Beam," with Q. Chen.
48. The First S.M. Wu Symposium on Manufacturing Science, May 1994, "Micro Tool Inspection by Laser Beam Reflection and the Abductory Induction Mechanism (AIM)," with I.N. Tansel, M. Trujillo, B . Himmel and D. Board.

49. The First S.M. Wu Symposium on Manufacturing Science, May 1994, "Automated Nonlinear Calibration of Machine Vision Systems for Dimensional Measurement," I.N. Tansel, W. Li, E. Paz, B. Himmel, and D. Board.
50. The Thirteenth Southern Biomedical Engineering Conference, Rockville, MD, April 1994, "The Sexually Dimorphic Changes in Serum Cortecosterone with Mechanical Characteristics of Juvenile Mouse Femora," with K.R. Gordon and N. Forbes.
51. The ASME's Fourteenth Biennial Conference on Mechanical Vibrations, Albuquerque, NM, September 1993, "Vibration Analysis of a Partially Covered, Double Sandwich-Type Cantilever Beam with Tip Mass," with Q. Chen.
52. The Second International Congress on Recent Developments in Air - and Structure - Borne Sound and Vibrations, Auburn, AL, March 1992, "A Simple Method of Structural Parameter Modification for a MDOF System," with Q. Chen.
53. The Eleventh Southern Biomedical Engineering Conference, Memphis, TN, October 1992, "Geometrical, Mechanical, and Structural Adaptation of Mouse Femora Exposed to Different Loadings," with M. Perl and K. R. Gordon.
54. The Tenth Southern Biomedical Engineering Conference, Atlanta, GA, October, 1991, "Mechanical Loading and Psychological Stress as Variables in the Development of the Femur of Juvenile Mice," with K. R. Gordon, O. I. Weeks, J. Rodriguez, and E. C-Rodriguez.
55. The Ninth Southern Biomedical Engineering Conference, Miami, FL, November 1990, "Developmental Changes in Mouse Femora Exposed to Different Activity Regimens with Emphasis on Structural and Mechanical Properties: I," with K. R. Gordon.
56. The Ninth Southern Biomedical Engineering Conference, Miami, FL, November 1990, "Developmental Changes in Mouse Femora Exposed to Different Activity Regimens with Emphasis on Structural and Mechanical Properties: II," with K. R. Gordon.
57. The 1990 American Control Conference, San Diego, CA, May 1990, "Design of Analog-to-Digital Transformations Tuned to the System Simulation," with V. Raman.
58. The Eighth Southern Biomedical Engineering Conference, Richmond, VA, October, 1989, "Factors Influencing Load Carrying Capacity of Mouse Femora due to Exercise," with K.R. Gordon and M. Perl.
59. The Twenty-First Midwestern Mechanics Conference, Houghton, MI, August 1989, "An Iterative Procedure, Based on the Dunkerley Method, for Determining the Natural Frequencies of Vibrating System."
60. The Twenty-First Midwestern Mechanics Conference, Houghton, MI, August, 1989, "Geometrical and Mechanical Changes in Mice Femora due to Increased Applied Loading," with K.R. Gordon and M. Perl.
61. The Sixth Southern Biomedical Conference, Dallas, TX, October 1987, "The Correlation of Experimentally Applied Load with the Structure of Cancellous and Cortical Bone, and the Breaking Strength of the Whole Femur of Developing Mice," with K. Gordon, M. Perl, and J. Bragason.
62. International Conference and Exposition on Fatigue, Corrosion Cracking, Fracture Mechanics and Failure Analysis, Salt Lake City, UT, December 1985, "Controlled Crack Propagation for Stone Cutting," with M. Perl and Y. Yarnitsky.

63. Invited Lecture-SUNY Binghamton, June, 1985, "Crack Kinking in Bars".
64. Invited Lecture-Rochester Institute of Technology, June, 1985, "Crack Kinking in Bars".
65. Invited Lecture-Florida International University, June, 1985, "Crack Kinking in Bars".
66. Winter Annual Meeting of the American Society of Mechanical Engineers, Phoenix, AZ, December, 1982, "Effect of Shear and Rotary Inertia on Dynamic Fracture of a Beam or Plate in Pure Bending," with G. Herrmann.

ADVISING/EDUCATION PRESENTATIONS

1. "ABET 2000 and its Possible Implications for the Israel ABET Model", invited presentation at Ben Gurion University of the Negev, Beer Sheva, Israel, Dec., 2002.
2. "FIU ALLSTAR Project", invited presentation at Ben Gurion University of the Negev, Beer Sheva, Israel, Nov. 1998.
3. "FIU ALLSTAR Project", invited presentation at the College of Judea and Samaria, Ariel, Israel, Nov. 1998.
4. "FIU ALLSTAR Project", invited presentation at the Southeast Florida Aviation Consortium, Miami, FL, October, 1998.
5. NASA Learning Technology Program Conference, NASA-LeRC, Cleveland, OH, September 1997, "FIU ALLSTAR Project".
6. The 1995 World Conference on Engineering Education, Minneapolis/St. Paul, MN, October 1995, "Evolution of Engineering Education at Florida International University", with M. Heimer.
7. The 1994 ASEE/GSW Conference on Engineering Education, Southern University, Baton Rouge, LA, March 1994, "Gateway Coalition Curriculum Revision: A Minimized Core Course Approach," with M. Heimer.
8. The 1993 Gateway Coalition Conference, Drexel University, Philadelphia, PA, October 1993, "Creating a Streamlined Gateway Core Sequence," with M. Heimer and G. Hopkins.
9. The Thirteenth National Academic Advising Association Conference, Houston, Texas, October, 1989, "Advising Mechanical Engineering Students at Florida International University," with C. Goldberg and G. Ray.

GRANTS

GRANT PROPOSALS AWARDED

- a. **US Army** (2011-2015): "Investigation of Multi-functional Ferroelectric Nanorod/Carbon Nanotube/Polymer Composites and Shape Memory Alloy Treatment for Active Structural Vibration Control", C. Levy (PI), X. Kong (co-PI). **Total Award: \$548,857.**
- b. **US Army-ARO** (2009-2012): "Investigation of Multi-functional Ferroelectric Nanorod/Carbon Nanotube/Polymer Composites and Shape Memory Alloy Treatment for Active Structural Vibration

- Control", C. Levy (PI), X. Kong (co-PI). **Total Award: \$365,000-award not executed due to discrimination lawsuit against DOD (Rothe vs. DOD).**
- c. **US Army-ARO** (2005-2009): "Investigation of Carbon Nanotubes and Smart Damping Treatment for Vibration Control of Fire Control Systems to Improve Firing Accuracy". C. Levy (co-PI) and A. Agarwal (co-PI). **Total Award: \$209,290.**
- c. **Center for Absorption in Science, Israel** (2000-2001): "Research on Fracture of Thick Walled Pressure Vessels". C. Levy (PI). **Total Award: NIS 70,820 per year (equivalent to \$17,705 per year).**
- d. **ARO** (1996-2000): "Research and Training on the Ground Based Radar Project," K. Wu (PI) and C. Levy (co-PI). **Total Award: \$189,228.**
- e. **NASA LaRC** (1995-1998): "Vibration Control for Flexible Structures by Means of Viscoelastic Damping and Shape Memory Alloy," C. Levy (PI) and K. Wu (co-PI). **Total Award: \$150,550.**
- f. **NASA-CAN-ARC-95** (1995-1999): "Aeronautics Learning Laboratory for Science, Technology and Research (ALL STAR) Network." C. Levy (co-PI), M.A. Ebadian (co-PI) and G. Roig (co-PI). **Total Award: \$1,168,085.**
- g. **NSF-ILI** (1995-1996): "Enhancement of Mechanical Engineering Curriculum with Signal Processing Applications," I. N. Tansel (co-PI) and C. Levy (co-PI). **Total Award: \$66,330 (includes University match).**
- h. **ED** (1995-1998): N. Munroe(PI), T.C. Yih, C. Levy and M.A. Ebadian. "Improvement and Enhancement of Environmental Engineering and Robotics at Florida International University," **Total Award: \$280,000.**
- i. **DOE-FIU PREP Program** (1995-1997): C. Levy (PI), M.A. Ebadian and T.C. Yih. "FIU-DOE PREP in Engineering," **Total Award: \$39,900.**
- j. **USASSDC** (1994-1998): K. Wu (PI), G.P. Cherepanov, M. El-Sayed, C. Levy, and M.A. Ebadian. "Structural Improvements of the GBR Systems Using Advanced Materials," **Total Award: \$484,311.** Note that Drs. El-Sayed and Cherepanov were removed from the project in 1995.
- k. **ED** (1993-1996): C. Levy (PI), M. A. Ebadian, T. C. Yih, and G. Roig. "Improvement and Enhancement of Engineering Education at FIU," **Total Award: \$294,980.**
- l. **DME Corporation** (1993-1994): C. Levy (PI). I. N. Tansel, M. El-Sayed, and K. Wu. **Total Award: \$30,000. THIS IS A NON COMPETITIVE GRANT FROM DME.**
- m. **DOE - FIU PREP Program** (1992-1994): C. Levy (PI), T. C. Yih, M. A. Ebadian, and G. Roig. **Total Award: \$40,432.**
- n. **AEPI - FIU-PREP Program** (1993): M. A. Ebadian (PI), C. Levy, T. C. Yih, and G. Roig. **Total Award: \$39,900.**
- o. **DOE NOPI** (1991-1998): On Environmental Restoration and Waste Management Academic Partnerships, M. A. Ebadian (co-PI) and C. Levy (co-PI). **Total Award: \$997,300.**
- p. **Florida - Israel Institute** (1991-1992): Stress Intensity Factors of Multicracked Thick-Walled Pressurized Cylinders, C. Levy (PI) and M. Perl. **Total Award: \$3,000** (seed money).
- q. **DOE - MUTECH** (1990-1995): FIU - MUTECH - Minority Undergraduate Training for Energy Related Training Program, C. Levy (PI), M. A. Ebadian and T. C. Yih. **Total Award: \$400,000.**

- r. **Florida High Technology and Industry Council Grant** (1991), Numerical Investigation of the Dual-Lumen Pressure Monitoring Catheter, M. A. Ebadian (Co-PI) and C. Levy (co-PI). **Total Award: \$19,689.**
- s. **NSF/ASEE Professional Improvement Short Course** (1989): Principles of Composite Materials. **Total Award: \$1,350** tuition grant and **\$500** travel and living support.
- t. **NIH (1988-1991):** The Reliability in Estimating the Left Ventricular Diastolic Stiffness. with G. Ray (PI), L. Cuervo (Co-PI) and C. Levy (Investigator). **Total Award: \$285,000.**
- u. **FIU Provost's Summer Proposal** (1988): The Three-Dimensional Numerical Modeling of the Mouse Femur Under Combined Axial Loading and Bending for the Determination of the Effect of Variations in Material and Geometrical Properties on its Mode of Failure. C. Levy (PI). **Total Award: \$7,406.**
- v. **IBM Research Support Program** (1985-1988): Simulation of the Rupture of Bars and Beams Under Various Loading Conditions with C. Levy (PI), K. Wu (Co-Investigator). **Total Award: \$5,000 travel stipend** to the Palo Alto Scientific Center, **Two IBM PC-AT's 300 CPU Hours Computing Time** on an IBM 3091.
- w. **Lady Davis Post-Doctoral Fellowship (1984-1985)** - An extension of one year was granted by the Lady Davis Fellowship Trust. **Total Award: Salary and expenses for one year** at the Technion, Israel Institute of Technology, Haifa, Israel.
- x. **Alexander Von-Humboldt Post-Doctoral Fellowship (1983):** The Theoretical and Numerical Extension of my Doctoral Thesis in Dynamic Crack Propagation. **Total Award: Salary for one year** at the Institute for Solid Body Mechanics in Freiburg, West Germany (Did not accept Award).
- y. **Lady Davis Post-Doctoral Fellowship (1983-1984):** The Theoretical and Numerical Extension of my Doctoral Thesis in Dynamic Crack Propagation and Composite Material Debonding . **Total Award: Salary and expenses for one year** at the Technion, Israel Institute of Technology, Haifa, Israel .

GRANT PROPOSALS PENDING

- a. **ALLSTAR update, white paper to The Boeing Company. If approved the amount requested will be \$30,000. May 2017. Pending decision.**
- b. **US Air Force Academy Outreach: white paper to obtain \$2500 for ALLSTAR server May 2017. Denied**

GRANT PROPOSALS SUBMITTED in 2003-2010 and not funded

2007-2010

- a. **NSF-CISE** (2011-2015) with Nova Southeastern, Y. Levy (co-PI), C. Levy (co-PI), M. Milani (PI). **Total Request \$1.5 million.**
- b. **US Navy** (2008-2011): "Investigation of Multi-functional Ferroelectric Nanorod/Carbon Nanotube/Polymer Composites and Shape Memory Alloy Treatment for Active Structural Vibration Control", C. Levy (PI), X. Kong (co-PI). **Total Request: \$300,000.** (white paper)

- c. **USAAMRDEC** (2008-2011): "Investigation of multi-functional ferroelectric nanorod/carbon nanotube/polymer composites and shape memory alloy treatment for vibration control of fire control system to improve firing accuracy", C. Levy (PI), X. Kong (co-PI). **Total Request: \$540,000.** (white paper)
- d. Applied Nanotech Holdings (2009): "Collaboration on STTR F08B-T23-0049 for Health Monitoring of Composite Structures Using Carbon Nanotubes", C. Levy (PI), X. Kong (co-PI). **Total Request: \$40,000.**

2006-2007

- a. **AFRL** (2007-2009): "Computational Modeling Of Probabilistic Fatigue And Fracture For Engine Health Management And Prognosis", G.S. Dulikravich (co-PI), C. Levy (co-PI), I.N. Tansel (co-Investigator). **Total Request: \$200,000.**
- b. **NASA** (2007-2008): "ATHENA", N. Pissinou (PI), K. Makki, C. Levy, B. Tansel, G. Roig, C. Thompson, L. Bliss, D. Rincon. **Total Request: \$1.644 million.**

2003-2006

- a. **NSF** (2006-2008): "REU Site in the Areas of Biomedical Engineering and Biological/Environmental Sciences". **Total Request: \$261,810.**
- b. **NSF** (2006-2008): "Creating Web-based materials for an Aeronautics Minor at Florida International University-a Minority Serving Institution", C. Levy PI. **Total Request: \$443,132.**
- c. **DHS** (2005-2008): DHS Center of Excellence-FIU Portion. M.A. Ebadian (PI), C. Levy, I.M. Tansel, G. Dulikravich, Y. Tao, G. Roig, M. Sukop.
- d. **Congressional Earmark** (2006-2008): Update and Enhancement of the ALLSTAR website. **Total Request: \$375,000.**
- e. **NSF** (2005-2008): "SST: Application of Carbon Nanotubes to Structural Sensor and Vibration Control", C. Levy (PI) and A. Agarwal (co-PI), **Total Request: \$375,000.**
- f. **US Army-ARDEC** (2004-2007): "Investigation of Carbon Nanotubes and Smart Damping Treatment for Vibration Control of Fire Control Systems to Improve Firing Accuracy". **Total Request: \$300,000.**
- g. **NSF** (2005-2008): "REU Site at FIU's Department of Mechanical and Materials Engineering". **Total Request: \$265,494.**
- h. **NSF** (2005-2008): "Creating Web-based materials for an Aeronautics Minor at Florida International University-a Minority Serving Institution", C. Levy PI. **Total Request: \$225,000.**
- i. **NSF** (2004-2007): SST: Application of Carbon Nanotubes to Structural Sensor and Vibration Control, C. Levy (PI) and A. Agarwal (co-PI), **Total Request \$375,000.**