

Curriculum Vitae: Eduardo Divo

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Current Appointment:

- **Associate Professor and BSET Program Coordinator.** Department of Engineering Technology (ENT). College of Engineering and Computer Science (CECS). University of Central Florida (UCF).
- Joint Appointment with the Department of Mechanical, Materials, and Aerospace Engineering (MMAE).

Teaching Record (page 17):

- Prepared, revised, and taught nineteen (19) different undergraduate courses for the ENT and MMAE departments as well as CECS core classes. Taught these courses over fifty (50) times since 2003.
- Prepared, revised, and taught four (4) different graduate courses for the ENT and MMAE departments.

Advising Record (page 19):

- Mentored and supervised five (5) MMAE, two (2) ECE, and over (15) ENT Senior Design projects.
- Mentored and supervised four (4) RAMP students, one (1) RAMP-UP student, four (4) EXCEL students, and over (10) independent students on Undergraduate Research.
- Advisor and committee chair for four (4) Honors in the Major students.
- Committee member for seven (7) M.S. thesis and five (5) Ph.D. dissertations.
- Graduated as advisor and committee chair and co-chair four (4) M.S. students.
- Graduated as advisor two (2) non-thesis M.S. students.
- Graduated as advisor and committee co-chair one (1) Ph.D. student.
- Currently advising and guiding four (4) Ph.D. students, three (3) M.S. students, and eleven (11) undergraduate research students.

Research Expertise (page 5):

- Meshless Methods, Boundary Element Methods, Computational Fluid Dynamics and Heat Transfer, Hemodynamcis, Fluid-Structure Interaction, Biomechanics, Machining Optimization, Inverse Problems, Evolutionary Optimization, High-Performance Computing, and Virtual Reality.
- Awarded **\$2,348,193.19** in a total of **59** external and internal, applied research, basic research, and equipment grants as PI and Co-PI since 2003. (**\$685,971.43** total share. A total of **29** of the **59** projects as main PI).

Publication Record (page 21):

- **1** Book Authored/Co-Authored and **6** Books Edited/Co-Edited.
- **4** Book Chapters Authored/Co-Authored.
- **40** Refereed Journal Papers.
- **89** Refereed Conference Papers.
- **16** Refereed Conference Abstracts/Oral Presentations.
- **9** Short Courses/Invited Talks/Keynote Addresses.

Service Record (page 18):

- Member of the Editorial Board for the International Journal of Engineering Analysis (Elsevier).
- Bachelor of Science in Engineering Technology (BSET) Program Coordinator for the ENT Department. Coordinate five (5) BSET concentrations: Operations, Design-Mechanical, Design-Construction, Space Science, and Geomatics. Advise over 180 students in the BSET program.
- Prepared ABET Self-Study document for the BSET program accreditation.
- Prepared and implemented assessment plan for the BSET program.
- Coordinator and Instructor for Freshman Engineering Program (EGN1006C, EGN1007C, and EGN1111C). Two design competitions and over 1000 students involved every year. Customized textbooks.
- Faculty mentor for the UCF RAMP and RAMP-UP programs.
- Faculty mentor and instructor for UCF EXCEL program.
- Developed and wrote Calculus Chapter on Integration by Parts for EXCEL Program textbook.
- Member of the CECS Scholarship committee.
- Member of the CECS Faculty and Student Excellence committee.
- Member of the CECS Research Incentive Award (RIA) committee.
- Member of the CECS In-House Research Award committee.
- Reviewer for several international journals: JHT, NHT, IPSE, EABE, IJNME, JASR, IJCF, etc.
- Member of the ASME K20 Committee on Numerical Heat Transfer.
- Host to UCF-UC (University of Carabobo, Venezuela) agreement for Visiting Scholars and Ph.D. International Advisor.
- Faculty Advisor for the Society of Hispanic Professional Engineers (SHPE).
- University Library Advisory Committee (LAC).
- Chair and organizer of several international conferences, symposia, sessions: BEM/MRM, ASME SHT, ASME IMECE, ECCOMAS, etc.

Awards (page 21):

- Research Incentive Award (RIA), State of Florida University System, 2008-2009.
- Technical Excellence Award, E-Week Engineer of the Year 2009.
- Distinguished Researcher Award, College of Engineering and Computer Science, 2008-2009.
- Teaching Incentive Program (TIP) Award, State of Florida University System, 2006-2007.
- Undergraduate Teaching Award, College of Engineering and Computer Science, 2006-2007.
- Fellow of the Wessex Institute of Great Britain, 2004.
- Teacher of the Year Award, Pi-Tau-Sigma, National Mechanical Engineering Honors Society, 2001.

Educational Background:

- Ph.D. Mechanical Engineering, University of Central Florida (UCF), 1998. Dissertation Title: A New Boundary Integral Method for Anisotropic Heat Conduction in Heterogeneous Media. Advisor: Dr. Alain Kassab.
- M.S. Mechanical Engineering, University of Central Florida (UCF), 1996.
- Statistical Control Analyst, Monterrey Institute of Technology (ITESM), Mexico-Venezuela 1993.
- Mechanical Engineering Degree, Central Technological University (UNITEC), Venezuela 1992.
- Technical Degree in Informatics, Central Technological University (UNITEC), Venezuela 1990.
- Technical Degree in Mechanics, Central Technological University (UNITEC), Venezuela 1990.

Employment History:

2008-present: BSET Program Coordinator

University of Central Florida (UCF), Orlando, Florida, USA.
Engineering Technology Department (ENT)

2005-present: Joint-Appointment Assistant Professor

University of Central Florida (UCF), Orlando, Florida, USA.
Mechanical, Materials, and Aerospace Engineering Department (MMAE)

2003-present: Assistant Professor

University of Central Florida (UCF), Orlando, Florida, USA.
Engineering Technology Department (ENT)

2002-2003: Visiting Assistant Professor

University of Central Florida (UCF), Orlando, Florida, USA.
Mechanical, Materials, and Aerospace Engineering Department (MMAE)

1998-2002: Research Scientist and Adjunct Professor

University of Central Florida (UCF), MMAE, Orlando, Florida, USA.
Research and development of numerical solution methods for inverse and conjugate heat transfer under NASA NRA, NSF, and DoE research grants. Teaching in the areas of Mathematics and Thermal-Fluid Sciences in both the graduate and undergraduate levels.

- 1999-2000: Research Engineer and Software Developer
Dual Incorporated, Lake Mary, Florida, USA.
Development of a Virtual Reality Visualization (VRV) system of dynamic weapon effects over ground and air vehicles for a NAVY Small Business Innovative Research (SBIR) project.
- 1997-today: Vice-President for Research
Computational Engineering Technologies, Inc., Oviedo, FL, USA.
Conduct research projects and private industry consulting in the areas of numerical heat transfer, CFD, and inverse thermal problems.
- 1997-1998: Research Associate
University of Central Florida (UCF), MMAE, Orlando, Florida, USA.
Developed a Genetic Algorithm-based parameter estimation code for non-homogeneous materials under a NASA Florida Space Grant Consortium.
- 1996-1997: Teaching Assistant
University of Central Florida (UCF), MMAE, Orlando, Florida, USA.
Instructor of Engineering Graphics for the SPACE/NASA program.
- 1996-1998: Research and Programming Engineer
Applied Technology Associates (ATA), Orlando, Florida, USA.
Numerical analysis of thermal ablation of rocket motor vanes under a NAVY SBIR grant. Participated in the development of the heat conduction computer codes Beta2 and Beta3.
- 1996-1996: Design Engineer
Teslatronics, Orlando, Florida, USA.
Testing and control of magnetic field measurement instruments.
- 1992-1994: Assistant Professor
Central Technological University (UNITEC), Valencia, Venezuela.
Teaching in the areas of Calculus, Differential Equations, Advanced Engineering Mathematics, Thermodynamics, and Fluid Mechanics.
- 1992-1994: Special Project Coordinator
Central Technological University (UNITEC), Valencia, Venezuela.
Coordinated several educational projects for government programs.
- 1990-1992: Teaching Assistant
Central Technological University (UNITEC), Valencia, Venezuela.
Instructor in the area of Calculus I, II, and III and Thermodynamics I.

Consulting Experience:

- General Dynamics, Orlando, FL.
- Engineering Technology Incorporated, Orlando, FL.
- Lockheed Martin Missiles and Fire Control, Orlando, FL.
- ZONA Technology, Scottsdale, AZ.
- RINITech, Orlando, FL.
- Dual Incorporated, Lake Mary, FL.
- Applied Technology Associates, Orlando, FL.
- NASA Glenn Research Center, Turbomachinery Division, Cleveland, OH.
- Supervision International Inc., Orlando, FL.

Research Grant Proposal Writing Activity as PI/Co-PI:

- Orlando Regional Healthcare Systems, 2009-2010, \$10,662. Project Title: Bench-top LVAD Experiment. PI's: Alain Kassab and Eduardo Divo (funded, waiting for account #).
- Siemens Power Generation, 2009-2010, \$5,000.00. Project title: CFD Analysis of Inlet Section. PI's: Eduardo Divo and Alain Kassab, (funded, account #1627-8028)
- National Science Foundation, 2010-2012, \$199,966.55. Project title: Case-based Modular Bioengineering Pedagogy. PI's: Olusegun Ilegbusi, Eduardo Divo, Alain Kassab, and Anand Santhanam (Pending)
- Lochibe and Belochi, Corp., 2009-2010, \$3,943.00. Project Title: Comprehensive Study of Hand-Rest Prototype. PI's: Eduardo Divo and Alain Kassab, (funded, Account #1627-8030)
- AnimaPro, 2009-2010, \$6,000.00. Project Title: Proverb Kingdom - Database Development for Online Proverbs Database. PI's: Ronald Eaglin and Eduardo Divo, (funded, Account #1627-8031)

_____ 2008-2009 Fiscal year

- University of Idaho - Pacific Northwest Regional Center of Excellence, 2009-2011, \$217,149.75. Project Title: Pulsatile Flow Technique for Separating Biological Materials in Aerosols. PI's: Eduardo Divo and Alain Kassab (pending)
- American Heart Association, 2009-2011, \$164,837. Project title: Surgical Adjustment of Ventricular Assist Device Implantation to Minimize Stroke Risk. PI's: William DeCampli, Alain Kassab, and Eduardo Divo, (declined)

- French-American Fund for University Partnerships, 2009-2011, \$120,000. Project title: Contextually-assisted Computational Thermodynamics. PI's: Avelino Gonzalez, Eduardo Divo, Alain Kassab, and Consuelo Stebbins, (declined)
- Xerox, 2009, \$15,500. Project Title: Xerox Hispanic College Liaison Program for UCF-SHPE, PI: Eduardo Divo, (funded, Acct. # 1627-8014 and Acct. #0516270001).
- National Science Foundation, 2009-2011, \$701,610. Project title: Mechanisms of Piping in Levees Associated with Hurricanes and Storm-Induced Hydrodynamic Loading. PI: Lakshmi Reddi, Sai Kakuturu, Eduardo Divo, Scott Hagen, and Alain Kassab, (declined)
- Siemens Power Generation, 2008-2009, \$2,784.60. Project title: CFD Analysis of Inlet Section with Overheating. PI's: Eduardo Divo and Alain Kassab, (funded, account #1627-8028)
- Siemens Power Generation, 2008-2009, \$5,615.40. Project title: CFD Analysis of Inlet Section. PI's: Eduardo Divo and Alain Kassab, (funded, account #1627-8028)
- National Science Foundation, 2008-2013, \$437,817.48. Project title: CAREER: Autonomous Localized Meshless Analysis (ALMA) Framework for Bio-Thermal-Fluid-Structure Interaction Problems. PI: Eduardo Divo, (declined)
- Convergent Modeling, 2008, \$21,466.00. Project title: Viscous Modeling for Automated Flow Simulation. PI's: Eduardo Divo and Alain Kassab, (funded, Acct. #1627-8022)
- Florida High Tech I-4 Council, 2008-2010, \$331,179. Project title: Incorporating 3D Lung Dynamics into Lung Radiotherapy for Non-Small Cell Lung Cancer, PI's: Jannick Rolland, Alain Kassab, Olusegun Ilegbusi, Eduardo Divo, Bari Ruddy, and Anand Santhanam, (funded, Acct. #2019-0144).
- Florida High Tech I-4 Council, 2008, \$57,535. Project title: Development of 5-axis Automatic NC Code Generation Application and Optimization Driver including a Radiation Transport Solver, PI's: Eduardo Divo and Alain Kassab, (funded, Acct. #2019-0138).
- National Science Foundation, 2008-2013, \$2,577,602, ACE-TEAMS: Alliance with Computing and Engineering for Transforming Education in

Applied Mathematical Sciences. PI's: Sudipto Choudhury, Eduardo Divo, Jayanta Kapat, Condance Schober, and Hassan Foroosh, (declined).

- MD Anderson, 2008-2010, \$905,495. Project title: Incorporating 3D Lung Dynamics into Lung Radiotherapy for Non-Small Cell Lung Cancer, PI's: Jannick Rolland, Alain Kassab, Olusegun Ilegbusi, Eduardo Divo, Bari Ruddy, and Anand Santhanam, (funded, Acct. #6501-8321, #1626-8120, 1870-4103).
- DotDecimal, 2008-2009, \$116,483. Project title: Development of 5-axis Automatic NC Code Generation Application and Optimization Driver including a Radiation Transport Solver, PI's: Eduardo Divo and Alain Kassab, (funded, Acct. # 1627-8021).
- Xerox, 2008, \$15,500. Project Title: Xerox Hispanic College Liaison Program for UCF-SHPE, PI: Eduardo Divo, (funded, Acct. # 1627-8014 and Acct. #0516270001).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2008: \$2,000. Project title: RTA #3190, Vibration and CFD Analysis of a Sense Probe. PI's: Eduardo Divo and Alain Kassab, (funded. UCF Research Foundation Acct. #0516260002).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2008: \$2,000. Project title: RTA #3053, Analysis of a Separation Membrane Cartridge. PI's: Alain Kassab and Eduardo Divo, (funded. UCF Research Foundation Acct. #0516260002).
- Orlando Regional Healthcare, 2007-2008, \$1,500. Project Title: Design of Scoliosis Treatment Ambulatory Device, PI's: Alain Kassab and Eduardo Divo, (funded, Research Foundation Acct. #0516260002)

2007 Fiscal year

- DotDecimal, 2007, \$43,566. Project title: Development of Customized Application for Automatic CAM Format Translation and Tool-path Generation, PI's: Eduardo Divo and Alain Kassab, (Funded, Acct. #1627-8013).
- National Science Foundation, 2007, \$297,680. Project title: Multi-Objective Shape Optimization of Bypass Grafts using an Evolutionary Meshless Approach, PI's: Eduardo Divo, Alain Kassab, and Gerald Smith, (declined).
- Florida High Tech I-4 Council, 2007, \$21,783. Project title: Development of Customized Application for Automatic CAM Format Translation and Tool-path Generation, PI's: Eduardo Divo and Alain Kassab, (Funded, Acct. #2019-0114).

- Xerox, 2007, \$15,500. Project Title: Xerox Hispanic College Liaison Program for UCF-SHPE, PI: Eduardo Divo, (funded, Acct. # 1627-8014 and Acct. #0516270001).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2007: \$2,000. Project title: RTA #2741, FEM Analysis of Impact and Load Resistance of Custom-made Ambulance. PI's: Eduardo Divo and Alain Kassab, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2007: \$2,000. Project title: RTA #2896, Wind Resistance Prediction of NET Restraint Design. PI's: Eduardo Divo and Alain Kassab, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2007: \$2,000. Project title: RTA #2923, CFD Analysis of Morphing Crafts. PI's: Eduardo Divo and Alain Kassab, (funded. UCF Research Foundation Acct. #0516260002).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2007: \$2,000. Project title: RTA #2456, Lubricant Contact Model of a Synkinetics Device. PI's: Alain Kassab and Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).
- National Science Foundation, 2007, \$367,456. Project title: Inverse Modeling of Porous Materials Processing. PI's: Olusegun Illegbusi, Eduardo Divo, and Alain Kassab, (declined).
- Florida Department of Health, 2007, \$1,206,088. Project title: The Role of Tumor Motion on Radiation Therapy of Non-small Cell Lung Cancer. PI's: Janick Rolland, Olusegun Illegbusi, Alain Kassab, Eduardo Divo, Bari Ruddy, and Anand Santhanam, (declined).
- UCF Undergraduate Teaching Equipment Grant, 2007: \$19,950. Project title: Computer Numerical Controls and Computer Integrated Manufacturing 5500 CNC Lathe. PI: Eduardo Divo, (declined).
- UCF Presidential Equipment Grant, 2006-2007, \$44,871. Project title: Computational Mechanics Laboratory High-Performance Computing Infrastructure Expansion. PI's: Eduardo Divo and Alain Kassab, (declined).
- SUS of Florida Turbine Initiative, 2007, \$178,403. Project title: A Novel Enhanced Heat Transfer Device for NASA's Technology, enabling long space flight. PI's: R. Narayanan, A. Kassab, E. Divo, (declined).

_____ 2006 Fiscal year

- National Science Foundation, 2006, \$318,336. Project Title: Shape Optimization of Femoral Bypass Grafts using an Evolutionary Meshless Approach, PI's: Eduardo Divo, Alain Kassab, and Gerald Smith, (declined).
- SUS of Florida Turbine Initiative: Advanced Turbines, Energy and Environment, 2006, \$247,515. Project Title: Coupled FVM/BEM Conjugate Thermo-Elastic Analysis and Automated Design of Cooling Channel Configurations, PI's: Alain Kassab and Eduardo Divo, (Funded at \$50,000, Acct. #1626-9036).
- Florida High Tech I-4 Council, 2006, \$15,000. Project Title: Optimization and Thermal Modeling for RF Antennae, PI's: Eduardo Divo and Alain Kassab, (Funded, Acct. #2019-0053).
- Sciperio, Inc., 2006, \$30,000. Project Title: Optimization and Thermal Modeling for RF Antennae, PI's: Eduardo Divo and Alain Kassab, (Funded, Acct. #1627-8009).
- National Science Foundation, 2006, \$575,941. Project Title: iCLS: An Integrated High-Quality Engineering Content Delivery System, PI's: Eduardo Divo and Alfred Ducharme, (declined).
- American Chemical Society, Petroleum Research Fund, 2006, \$134,580. Project Title: Numerical Analysis and Prediction of Streamline Propagation from Wells in Anisotropic and Heterogeneous Oil Reservoirs using a Generalized BEM/Evolutionary Algorithm, PI's: Eduardo Divo and Alain Kassab, (declined).
- Space Research Initiative, 2006, \$155,000. Project Title: Miniaturization of a Novel Enhanced Heat Transfer Device for NASA's technology enabling long space flight, PI's: Alain Kassab, Eduardo Divo, and R. Narayanan, (declined).
- Space Research Initiative, 2006, \$155,000. Project Title: Space-Related Education in the Physical Sciences for K-12, PI's: R. Narayanan, Alain Kassab, and Eduardo Divo, (declined).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2006: \$2,000. Project title: RTA #2456, Lubricant Contact Model of a Synkinetics Device. PI: Alain Kassab and Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2006: \$2,000. Project title: RTA #2325, Pressure Drop Analysis of a new Hydro-Turbine Design. PI: Alain Kassab and Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).

- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2006: \$2,000. Project title: RTA #2247, Heat Transfer Study of Aluminum Extrusion Process. PI: Eduardo Divo and Alain Kassab, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2006: \$2,000. Project title: RTA #1978, CFD Analysis of Anchor Sail. PI: Alain Kassab and Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).
- Dell Higher Education, 2006: \$10,582.25. Project title: Matching Funds to Support HPCC Infrastructure Expansion. PI's: Eduardo Divo and Alain Kassab, (funded. Equipment, no acct.).
- UCF Undergraduate Teaching Equipment Grant, 2006: \$18,911.00. Project title: Computer Numerical Controls and Computer Integrated Manufacturing 5500CNC Lathe. PI: Eduardo Divo, (declined).
- American Heart Association, 2006: \$43,540. Project title: Hemodynamics Meshless Modeling and Evolutionary Shape Optimization of a Bypass Graft End-to-Side Distal Anastomosis. PI's: Alain Kassab and Eduardo Divo, (declined).
- UCF Presidential Equipment Grant, 2005-2006, \$39,327. Project title: Expansion of the High Performance Computing Infrastructure of the Computational Mechanics Laboratory. PI's: Alain Kassab and Eduardo Divo, (funded. Acct. #20020004).

_____ 2005 Fiscal year

- US Marine Corps, 2005, \$295,369. Project title: Head and Neck Blunt Trauma Model for the ATBM. PI's: David Nicholson, Eduardo Divo, and Alain Kassab, (declined).
- Siemens AG Power Generation, 2005, \$48,224. Project title: CFD Modeling and Analysis of Gas Turbines. PI's: Alain Kassab and Eduardo Divo, (declined).
- Florida High Tech I-4 Council, 2005, \$38,226. Project title: CFD Modeling and Analysis of Nozzle Design and Parallel Genetic Algorithm Optimization of Antennae Arrays. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #20190012).

- ZONA Technology, Inc., 2005, \$56,500. Project title: MDA STTR Phase I: Effective GPU acceleration of Meshless Navier-Stokes Solver. PI's: Sumanta Pattanaik, Charles Hughes, Eduardo Divo, and Alain Kassab, (declined).
- Space Research Initiative, 2005, \$248,776. Project Title: Miniaturization of a Novel Enhanced Heat Transfer Device for NASA's technology enabling long space flight, PI's: R. Narayanan, Eduardo Divo, and Alain Kassab, (declined).
- Space Research Initiative, 2005, \$249,744. Project Title: Air quality and ventilation in space vehicles and space environments - meshless simulation and experimental verification, PI's: Eduardo Divo, Alain Kassab, and R. Narayanan, (declined).
- National Institute of Health (NIH), 2005: \$1,382,980.00. Project title: Automated Segmentation and Flow Analysis of Carotid MRA Images. PI's: Olusegun Ilegbusi, Eduardo Divo, Alain Kassab, (declined).
- Dell Higher Education, 2005: \$20,216.00. Project title: Supporting Equipment Grant for High-Performance PowerEdge Cluster. PI's: Eduardo Divo and Alain Kassab, (funded. Equipment, no acct.).
- Florida Space Grant Consortium (FSGC), 2005: \$38,369. Project title: Air Quality and Ventilation in Space Vehicles and Space Stations. PI's: Eduardo Divo and Alain Kassab, (declined).
- UCF Undergraduate Teaching Equipment Grant, 2005: \$19,977.00. Project title: Computer Numerical Controls and Computer Integrated Manufacturing 5600CNC Mill and Conveyor System. PI's: Eduardo Divo and Rosida Coowar, (funded. ENT Department acct.).
- UCF Undergraduate Teaching Equipment Grant, 2005: \$19,050.75. Project title: Computer Organization and Design External Parallel Cluster. PI's: Eduardo Divo and Alain Kassab, (declined).
- Sciperio, 2005, \$38,226. Project Title: Parallel Genetic Algorithm Optimization of Antennae Arrays, PI's: Eduardo Divo and Alain Kassab, (funded. Acct #16268057).
- nScrypt, 2005, \$38,226. Project Title: CFD Modeling and Analysis of Nozzle Design, PI's: Eduardo Divo and Alain Kassab, (funded. Acct #16268057).
- UCF/Office of Research, 2005, \$7,484. Project Title: Meshless Simulation of Air Quality and Contaminant Transport. PI: Eduardo Divo, (funded. Acct #16279004).

- General Dynamics, 2005, \$19,621. Project Title: Monte Carlo Simulation of Smoke Patterns. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #16268057).
- General Dynamics, 2005, \$4,533. Project Title: Monte Carlo Simulation of Smoke Screens. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #16268057).
- Florida High Tech I-4 Council, 2005, \$12,041. Project Title: Monte Carlo Simulation of Smoke Screens, part II. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #20170010).
- Florida High Tech I-4 Council, 2005, \$13,281. Project Title: Monte Carlo Simulation of Smoke Screens. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #20170010).
- Florida High Tech I-4 Council, 2005, \$5,720. Project Title: Monte Carlo Simulation of Smoke Disribution. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #20170010).
- Florida High Tech I-4 Council, 2005, \$19,230. Project Title: Evaluation Study of Heat Transfer CFD Grid Generation Tools. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #20170011).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2005: \$3,000. Project title: RTA #1794, CAD Design and CFD Analysis of a Dual Blower. PI: Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2005: \$2,000. Project title: RTA #1938, CAD Design of a Luggage Unit. PI: Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2005: \$2,000. Project title: RTA #1601, CAD Design for Spring Clip. PI's: Eduardo Divo and Alain Kassab, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2005: \$2,000. Project title: RTA #1577, Optimization of Cyclone Separators. PI's: Alain Kassab and Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).

_____ 2004 Fiscal year

- Space Research Initiative, 2004, \$248,776. Project Title: Oscillatory Flow as a Means of Enhanced Species Separation: application to life support for NASA's long-term space-based missions, PI's: R. Narayanan, Eduardo Divo, and Alain Kassab, (funded at \$200,000.00. Acct #20040002).
- Space Research Initiative, 2004, \$248,776. Project Title: Air quality and ventilation in space vehicles and space environments - meshless simulation and experimental verification, PI's: Eduardo Divo, Alain Kassab, and R. Narayanan, (declined).
- Engineering Technology Incorporated, 2004: \$11,439.00. Project title: Montecarlo Simulation of Smoke Distribution. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #16268049)
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2004: \$2,000. Project title: RTA #1231, CFD Analysis to Determine Optimum Design Configuration to Maximize Fuel Performance at Air Intake. PI's: Eduardo Divo and Alain Kassab, (funded. UCF Continuing Education Acct. #3514373).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2004: \$2,000. Project title: RTA #1130, Reduce Airflow through Fume Hoods. PI's: Alain Kassab and Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).
- NASA, Glenn Research Center, 2004: \$529,076.00. Project title: Glenn-HT/BEM: conjugate thermo-elastic analysis for active control of turbomachinery tip gaps. PI's: Alain Kassab and Eduardo Divo, (declined).
- Siemens-Westinghouse Power Corporation, 2004: \$3,150.00. Project title: CFD Modeling of Transition Section. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #16268057).
- Siemens-Westinghouse Power Corporation, 2004: \$38,459.00. Project title: Evaluation Study of Heat Transfer CFD Grid Generation Tools. PI's: Alain Kassab and Eduardo Divo, (funded. Acct #16268047).
- Florida Space Grant Consortium (FSGC), 2004: \$57,325. Project title: Meshless Modeling of Air Quality and Ventilation in Space Vehicles and Space Stations. PI's: Alain Kassab and Eduardo Divo, (declined).
- Space Alliance Technology Outreach Program (SATOP), Titusville, Florida, 2004: \$2,000. Project title: Aerodynamic drag reduction on open wheel road racing car. PI's: Alain Kassab and Eduardo Divo, (funded. UCF Continuing Education Acct. #3514373).

- Lockheed Martin Corporation, Missiles and Fire Control, 2004: \$10,799. Project title: DRBEM-Based Inverse Algorithm to Determine an Unknown Multi-dimensional Transient Temperature Boundary Condition. PI's: Alain Kassab and Eduardo Divo, (funded. UCF OOR Acct. #16-26-8042).
- UCF Presidential Equipment Grant, 2004, \$59,992. Project Title: Computing Cluster for Computational Fluid Dynamics and Computational Mechanics. PI's: Alain Kassab and Eduardo Divo, (funded. UCF OOR Acct. # 2003009).
- UCF Office of Research, 2004: \$7,474.00. Project title: Efficient Modeling of Large-Scale Fluid Flow-Heat Transfer Problems with a Parallel Domain Decomposition Meshless RBF Collocation Approach. PI: Eduardo Divo, (declined).

2003 Fiscal Year

- Florida High Tech I-4 Council, 2003, \$10,000. Project title: Beowulf Cluster for Computational Fluid Dynamics. PI's: Alain Kassab and Eduardo Divo, (funded. UCF OOR Acct. #20030007).
- Siemens-Westinghouse Power Corporation, 2003: \$20,004.40. Project title: Beowulf Cluster for Computational Fluid Dynamics. PI's: Alain Kassab and Eduardo Divo, (funded. UCF OOR Acct. #16268034).
- UCF/UF Space Research Initiative, 2003: \$124,388.00. Project title: Oscillatory Flow as a Means of Enhanced Species Separation – application to life support and to detection. PI's: Alain Kassab and Eduardo Divo, (declined).
- UCF Undergraduate Teaching Equipment Grant, 2003: \$19,853.00. Project title: Computer Numerical Controls and Computer Integrated Manufacturing 5600CNC Mill and Conveyor System. PI's: Eduardo Divo and Rosida Coowar, (declined).
- UCF Undergraduate Teaching Equipment Grant, 2003: \$19,931.00. Project title: Programmable Logic Applications and Device Integration 5250 Servo Robot and Training Software. PI's: Rosida Coowar and Eduardo Divo, (funded. UCF/ENT Acct. #16270001).
- UCF Undergraduate Teaching Equipment Grant, 2003: \$20,004.15. Project title: Computer Organization and Design External Parallel Cluster. PI's: Eduardo Divo and Alain Kassab, (declined).

Prior to 2003

As PI/Co-PI:

- Florida Space Grant Consortium Undergraduate Summer Research Experience, 2002: \$3,000. Project title: investigative study for a cryo-surgery kit for long-term space-based missions, PI's: Kassab, A.J. and Divo, E., undergraduate student: Ms. Kristel Gonsette (funded. UCF-OOR Acct #16-26-991).
- Florida Space Grant Consortium and Technological Research Development Authority, 2001-2002: \$30,000. Project title: Cryosurgery Kit for Long-term Space Based Missions, PI's: Divo, E. and Kassab, A.J., (declined).
- Florida Space Grant Consortium and Technological Research Development Authority, 1999-2000: \$35,192. Project title: Inverse BEM Algorithm for Identification of Multi-Dimensional Time-Dependent Convective Heat Transfer Coefficients in Aerospace Components, PI's: Kassab, A.J. and Divo, E., NASA Contract number: NGTS- 40025, (funded. UCF DSR Acct. #16-26-774).

As Principal Researcher/Associate Scientist:

- NASA, National Research Announcement NRA-01-GRC-2, NASA Glenn Research Center, 2001-2004: \$300,000. Project Title: Glenn-HT/BEM Conjugate Heat Transfer Solver for Large-Scale Turbomachinery Models. PI's: Kassab, A.J. and Kapat, J. NASA Grant Number NAG3-2691 (funded. UCF-OOR Acct. #16-26-232).
- NASA, National Research Announcement NRA-99-GRC-2, NASA Glenn Research Center, 1999-2001: \$103,740. Project Title: Investigation of Conjugate Heat Transfer in Turbine Blades and Vanes. PI's: Kapat, J. and Kassab, A.J., NASA Grant Number NAG3-2311 (funded. UCF OOR Acct. #16-26-228).
- United States National Science Foundation, 1999-2001: \$110,584. Project Title: Reconstruction of Multidimensional Convective Heat Transfer Coefficient Distributions Using an Inverse BEM-Based Problem Approach. PI's: Kassab, A.J. and Kapat, J.S. NSF grant no. CTS-9978558 (funded. UCF OOR Acct. #16-26-412).
- Florida Space Grant Consortium and Technological Research Development Authority, 1998-1999: \$43,791. Project title: Development of a 3-D Boundary Element Method Model to Predict Recession Rates of Thermal Protection Systems of Re-Entry Vehicles, PI's: Kassab, A.J. and Cavalleri, R., NASA Contract number: NGTS- 40025, (funded. UCF DSR Acct. #16-26-762).

- Florida Space Grant Consortium and Technological Research Development Authority, 1997-1998: \$33,277. Project title: Thermal Conductivity Characterization of Non-homogeneous Aerospace Materials. PI's: Kassab, A.J. and Cavalleri, R., NASA, Contract number: NGTS- 40025, (funded. UCF DSR Acct. #16-26-745).

TEACHING

Graduate Level (UCF):

- EML5060: Mathematical Methods in Mechanical and Aerospace Engineering.
- EML6062: Boundary Element Methods.
- EML6154: Conduction Heat Transfer.
- ETG5918: Applied Research Methods.

Undergraduate Level (UNITEC):

- Superior Engineering Mathematics I.
- Superior Engineering Mathematics II.
- Differential Equations.
- College Algebra.
- Calculus I.
- Calculus II.
- Calculus III.
- Fluid Mechanics.
- Thermodynamics I.
- Thermodynamics II.
- Applied Thermodynamics for Electrical Engineering.

Undergraduate Level (UCF):

- CET2364: System Applications in C
- EGN1006C: Introduction to the Engineering Profession
- EGN1007C: Engineering Concepts and Methods
- EGN1111C: Engineering Graphics
- EGN3343: Engineering Thermodynamics
- EML3034C: Modeling Methods in Mechanical and Aerospace Engineering
- EML3701: Fluid Mechanics I
- EML4142: Heat Transfer
- EML4703: Fluid Mechanics II
- EST3543C: Programmable Logic Applications and Device Integration
- EST4502C: Metrology and Instrumentation
- ETG3533C: Applied Engineering Strength of Materials
- ETG4950: Engineering Senior Design
- ETI3418C: Computer Numerical Controls – Machining Applications
- ETI3421: Materials and Processes
- ETI3651C: Computer Applications
- ETM4331C: Applied Fluid Mechanics
- ETM4512C: Applied Design of Machine Elements
- MAP3401: Problem Analysis

SERVICE

1. Appointed Member of the Editorial Board for the International Journal of Engineering Analysis (Elsevier) in 2007.
2. Member of the ASME K20 Committee on Numerical Heat Transfer, 2007-.
3. Member of the International Scientific Advisory Board for BEM/MRM 2007.
4. Member of the CECS Scholarship committee, 2008.
5. Member of the CECS Excellence Awards committee, 2008.
6. Member of the Research Incentive Award (RIA) committee, 2007-present.
7. Member of the In-House Research Award committee, 2006-present.
8. Mentor for the UCF EXCEL Program, 2007-present.
9. Calculus Faculty and Content Developer for the UCF EXCEL Program, 2007-present.
10. SolidWorks Training Sessions for Faculty and Teaching Assistants, 2007.
11. Host to UCF-UC (University of Carabobo, Venezuela) agreement for Visiting Scholars and Ph.D. International Advisor, 2006-present.
12. Developed iCLS Initiative for Classroom-less Content Delivery for CECS Introduction to Engineering Courses. Expanded the Initiative to ENT Courses. Participated in the iCLS Training of other CECS Faculty Members, 2006.
13. CECS Outreach Program High-School Faculty Trainer, 2006-present.
14. Member of the CECS Undergraduate Task Force Committee, 2006-present.
15. Joint UCF/CECS/BCC/RC Pre-Engineering Partnership Faculty Trainer, 2006-2007.
16. Faculty Advisor for the Society of Hispanic Professional Engineers (SHPE), 2003-present.
17. University Library Advisory Committee (LAC) 2005-2008.
18. Faculty Advisor and Lecturer for the Summer Program for Academic Careers in Engineering (SPACE), 1997-2006.
19. Mentor for the Undergraduate Research and Mentoring Program (RAMP), 2004-present.
20. Judge for the Annual NSF Florida-Georgia Louis Stokes Alliance for Minority Participation in Engineering & Science (FGLSAMP), 2005-2006.
21. Faculty Library Representative for Engineering Technology, 2003-2004.
22. University Course Request Committee (UCRC) Engineering Technology Representative, 2003-2004.
23. Proposal Reviewer for the U.S. Civilian Research & Development Foundation (CRDF) for the Independent States of the Former Soviet Union. Advance the

transition of weapons scientists to civilian work by funding collaborative non-weapons research and development projects, 2003-2004.

Student Advising Activities:

Undergraduate:

- Jesse Kelly. RAMP and HIM Mentor. Meshless Turbulence Models.
- Megan Nowikowski. Research Supervisor. CFD.
- Robert Blair. EXCEL Mentor.
- Jorge Paz y Puente. EXCEL Mentor.
- Anthony Seabert. EXCEL Mentor.
- Kevin Schillo. EXCEL Mentor.
- Craig Rogers. Research Supervisor. CFD.
- Andres Leon. Research Supervisor. CNC.
- Andres Osorio. RAMP and HIM Mentor. Meshless Hemodynamics.
- Kevin Durette. Research Supervisor. Numerical Analysis.
- M. Alejandra Ricaurte. Research Supervisor. Biomechanics.
- Luis Rosa. Research Supervisor. CFD.
- Victor Huayamave. Research Supervisor. CFD.
- Christian Saffon. Research Supervisor. CFD.
- Shannon Statham. Research Supervisor. Conjugate Heat Transfer.
- Colleen Crawford. Research Supervisor. CFD.
- Salvadore Gerace. Honors in the Major Co-Advisor. Meshless Methods.
- Jonathan Wehking. Honors in the Major Co-Advisor. Brownian Ratchets.
- Carolina Barriento. Research Supervisor. Parallel Clustering.
- Kevin Erhart. Honors in the Major Co-Advisor. BEM.
- Eric Mitteff. Research supervisor. Meshless methods.
- Luis Quintana. Research supervisor. Meshless methods.
- Santiago Salazar. Research supervisor. CFD.
- Anthony Esposito. Research supervisor. Genetic Algorithms.
- Leonardo Rocha. RAMP mentor. Aerodynamics.
- Dustin Johnson. RAMP mentor. Parallel Clustering.

Graduate:

- Victor Huayamave. Ph.D. Advisor. Porous Media Flow.
- Andres Vidal. Ph.D. Advisor. Pulmonary Flow.
- Santiago Salazar. M.S. Advisor. Conjugate Heat Transfer.
- Anthony Amadio. M.S. Thesis Committee Member. Driver-Gas Tailoring for Test-Time Extension using Unconventional Driver Mixtures.
- Zaher El Zahab. Ph.D. Co-Advisor. Meshless Methods, Combustion, Bio-Fluids. (Ph.D. Spring 2008)
- Rodolfo Hutchinson. Ph.D. Advisor. BEM Thermoelasticity.
- Ivan Oropeza. M.S. Advisor. Oscillatory Species Separation, CFD. (M.S. non-thesis Spring 2008)
- Jennifer Crain. M.S. Advisor. Oscillatory Species Separation, CFD. (M.S. Summer 2007)

- Eric Mitteff. M.S. and Ph.D. Advisor. Meshless Methods. (M.S. Summer 2007)
- Kevin Erhart. M.S. and Ph.D. Advisor. BEM, Meshless Methods, and Inverse Problems. (M.S. Summer 2007)
- Salvadore Gerace. M.S. and Ph.D. Co-Advisor. Meshless Methods and Multi-Objective Optimization. (M.S. Fall 2007)
- Stefan Mancas. Department of Mathematics. Ph.D. Dissertation Committee Member. Solitons.
- Tomasz Wlodarczyk. Department of Mathematics. Ph.D. Dissertation Committee Member.
- Andreas Hadjinicolaou. Ph.D. Co-Advisor. BEM and Inverse Problems in Heat Transfer.
- Franklin Rodriguez. Ph.D. Advisor. Numerical Conjugate Heat Transfer.
- Mahmood Silieti. Ph.D. Co-Advisor. Numerical Conjugate Heat Transfer and CFD.
- Jennifer Gill. M.S. Co-Advisor. Thermal Contact Resistance and Genetic Algorithms. (M.S. Fall 2006)
- Mohamed Elfahdli. M.S. Co-Advisor. Numerical Conjugate Heat Transfer and CFD. (M.S. non-thesis Spring 2008)
- Bhaskar Sirivastra. M.S. Committee member. Laser speckle Pattern Correlations.
- Brian Gulliver. M.S. Committee member. Rotary Micro-Compressor.
- Rachid Aitmaalemachen. M.S. Committee member. Explicit Sensitivity Coefficient.
- Ed Chehab. M.S. Committee member. Heat Transfer Coefficients in Channels.

International:

- David Ojeda. Central University, Venezuela. Ph.D. International Advisor. BEM/GA Cavity Detection in Biomechanics.
- Brizeida Gamez. Central University, Venezuela. Ph.D. International Advisor. BEM Domain Decomposition Thermoelasticity and Fracture Mechanics.
- Carlos Morales. University of Carabobo, Venezuela. Ph.D. International Advisor. Virtual Fluoroscopy System for Spine Surgery.
- Carolina Peña. University of Carabobo, Venezuela. Ph.D. International Advisor. Numerical Optimization for Braquiotherapy Planning.

Awards and Recognitions:

- Research Incentive Award (RIA), State of Florida University System, 2008-2009.
- Technical Excellence Award, E-Week Engineer of the Year 2009.
- Distinguished Researcher Award, College of Engineering and Computer Science, 2008-2009.
- Distinguished Researcher Award, Engineering Technology Department, 2008-2009.
- Teaching Incentive Program (TIP) Award, State of Florida University System, 2006-2007.
- Undergraduate Teaching Award, College of Engineering and Computer Science, 2006-2007.
- Undergraduate Teaching Award, Engineering Technology Department, 2006-2007.
- Fellow of the Wessex Institute of Great Britain, July 12, 2004.
- Member of the International Association of Networking Professionals.
- Who's Who in Science and Engineering, 2005-2006.
- Awarded 'Teacher of the Year 2001' recognition by Pi-Tau-Sigma, National Mechanical Engineering Honors Society.
- Consistently received Excellent Teaching Evaluations at UCF, CECS, MMAE, and ENT. Overall student assessment of instructor: approx. 3.6/4.0 in upper-level classes.
- Selected as Distinguished and Valedictorian Professor for the class of 1991 at UNITEC.
- Cumulative Grade Point Average (GPA) of 4.0/4.0, Graduate Program, UCF 1998.
- Certificate of Excellence, Mechanical Engineering Graduate Program, UCF 1996.
- Order "Antonio José de Sucre ", FUNDAYACUCHO, Venezuela 1993.
- Best Academic Index (GPA) Award for the Class of 1992, Central Technological University.
- Excellent Academic Performance Award, Central Technological University, 1992.
- Valedictorian for the Class of 1992, Central Technological University.
- Distinguished Thesis, Central Technological University 1992.

PUBLICATIONS

Books Authored/Co-Authored:

1. Divo, E. and Kassab, A.J., Boundary Element Method for Heat Conduction: with Applications in Non-Homogeneous Media, Topics in Engineering Series Vol. 44, WIT Press, Billerica, MA, 2002.

Book Edited/Co-Edited:

1. Kassab, A.J., Brebbia, C.A., Divo, E., and Poljak, D. (eds.), Proceedings of BEM/MRM27, the 27th International Conference in Boundary Element Methods and other Mesh Reduction Methods, March 15-17, 2005, Orlando, Florida.
2. Brebbia, C.A., Kassab, A.J., Chopra, M.B. and Divo, E. (eds.), Proceedings of BETECH2001, the 14th International Boundary Element Technology Conference, March 12-14, 2001, Orlando, Florida, Computational Mechanics, Boston, 2001.
3. Nayfeh, J. and Divo, E. (eds.), Introduction to MathCAD 13, by R. Larsen. Edited for EGN1007: Engineering Concepts and Methods. Pearson Custom Publishing, 2008.
4. Nayfeh, J. and Divo, E. (eds.), Engineering with Excel, by R. Larsen. Edited for EGN1007: Engineering Concepts and Methods. Pearson Custom Publishing, 2008.
5. Nayfeh, J. and Divo, E. (eds.), Learning SolidWorks, by R. Lueptow and M. Minbiole. Edited for EGN1006: Introduction to the Engineering Profession. Pearson Custom Publishing, 2007.
6. Nayfeh, J. and Divo, E. (eds.), A Tutorial Guide to AutoCAD 2008, by S. Lockhart. Edited for EGN1006: Introduction to the Engineering Profession. Pearson Custom Publishing, 2007.

Book Chapters Authored/Co-Authored:

1. Divo, E., "Integration by Parts," Chapter 3 in NSF UCF EXCEL Applications of Calculus II. Hagen, S. and Medeiros, S. (eds.), Spring 2008.
2. Divo, E., Kassab, A.J., and Erhart, K., "Domain Decomposition Techniques for Boundary Elements. Applications to Fluid Flow," Chapter 5 in Parallel BEM and Mesh Reduction Methods, Popov, V., Power, H., and Skerget, L. (eds.), WIT Press, Billerica, MA, pp. 147-186, 2007.

3. Kassab, A.J., Wrobel, L.C., Bialecki, R.A., and Divo, E., "Boundary Elements in Heat Transfer," Chapter 4 in Handbook of Numerical Heat Transfer, Minkowycz, W. and Sparrow, E.M. (eds.), John Wiley and Sons, New York, NY, John Wiley and Sons, Vol. 1, 2nd Edition, pp. 125-166, 2005.
4. Divo, E. and Kassab, A.J., "A Generalized Boundary Integral Formulation for Diffusion Problems in Inhomogeneous Media," Chapter 2 in, Advances in Boundary Elements: Numerical and Mathematical Aspects, Golberg, M.A., (ed.), Computational Mechanics, Boston, 1998, pp. 37-76.

Refereed Journal Publications:

1. Anand P Santhanam, Yugang Min, Sudhir P Mudur, Abhinav Rastogi, Bari H Ruddy, Amish Shah, Eduardo Divo, Alain Kassab, Jannick P Rolland, Patrick Kupelian, "An Inverse Hyper-Spherical Harmonics-based Formulation for Reconstructing 3D Volumetric Lung Deformations," C. R. Mecanique 333 (2009), (in review).
2. El Zahab, Z., Divo, E., and Kassab, A.J., "A Localized Collocation Meshless Method (LCMM) for Incompressible Flows CFD Modeling with Applications to Transient Hemodynamics," Engineering Analysis with Boundary Elements, Vol. 33, No. 8-9, pp. 1045-1061, 2009.
3. El Zahab, Z., Divo, E., and Kassab, A.J., "Minimization of the Wall Shear Stress Gradients in Bypass Grafts Anastomoses," Computer Methods in Biomechanics and Biomedical Engineering, (in press 2009).
4. Silieti, M., Divo, E., and Kassab, A.J., "The Effect of Conjugate Heat Transfer on Film Cooling Effectiveness," Numerical Heat Transfer, (in press 2009).
5. Silieti, M., Divo, E., and Kassab, A.J., "Singular Superposition/Boundary Element Method for Reconstruction of Multi-dimensional Heat Flux Distributions with Application to Film Cooling Holes," CMC: Computers, Materials, & Continua, (in press 2009).
6. Silieti, M., Divo, E., and Kassab, A.J., "Film Cooling Effectiveness from a Single Scaled-up Fan Shaped Cooling Hole: comparison of adiabatic and conjugate heat transfer CFD models," International Journal of Thermal Sciences, (in press 2009).
7. Divo, E. and Kassab, A.J., "Localized Meshless Modeling of Natural Convective Viscous Flows," Numerical Heat Transfer, Part A: Fundamentals, Volume 53, Issue 6, pp. 487-509, 2008.
8. Gamez, B., Ojeda, D., Divo, E., Kassab, A., and Cerrolaza, M., "Parallelized Iterative Domain Decomposition Boundary Element Method for Thermoelasticity

- in Piecewise Non-Homogeneous Media,” Engineering Analysis with Boundary Elements, Vol. 32, pp. 1061-1073, 2008.
9. El Zahab, Z., Divo, E., and Kassab, A. “A Meshless CFD Approach for Evolutionary Shape Optimization of Bypass Grafts Anastomoses.” Inverse Problems in Science and Engineering, Vol. 17, No. 3, 411-435, 2009.
 10. Gill, J., Divo, E., and Kassab, A.J., “Estimating Thermal Contact Resistance Using Sensitivity Analysis and Regularization”, Engineering Analysis with Boundary Elements, Vol. 33, No. 1, pp. 54-62, 2009.
 11. Ojeda, D., Divo, E., Kassab, A., and Cerrolaza, M., “Cavity Detection in Biomechanics by an Inverse Evolutionary Point Load BEM Technique.” Inverse Problems in Science and Engineering, Vol. 16 Issue 8, pp. 981-993, 2008.
 12. D. Ojeda, E. Divo, A. Kassab, M. Cerrolaza, “Localización de Defectos en Hueso Cortical Empleando el Método de los Elementos de Contorno y Algoritmos Genéticos,” Revista Boletín Técnico del IMME, cod. BTI 2007/09, Vol. 46, No. 1, 2008.
 13. D. Ojeda, E. Divo, A. Kassab, M. Cerrolaza, “Detección de Cavidades en Problemas de Elastostática Usando Algoritmos Genéticos y el Método de los Elementos de Contorno.” REVISTA INTERNACIONAL DE METODOS NUMERICOS PARA CALCULO Y DISEÑO EN INGENIERIA. Vol. 23, No. 4, 2007. (<http://www.cimne.upc.es/rimni/papers.asp>)
 14. B. Gamez, E. Divo, A. Kassab, M. Cerrolaza. “Análisis de Problemas Elásticos 2D utilizando la Técnica de Descomposición de Dominio y el Método de los Elementos de Contorno.” REVISTA DE LA FACULTAD DE INGENIERIA. UCV. Vol. 22, No. 1, pp. 107-113, 2007. (<http://www.revele.com.ve/revistas.php?rev=fiucv>)
 15. D. Ojeda, E. Divo, A. Kassab, M. Cerrolaza. Superposición de Singularidades para Simular la Presencia de Cavidades en Problemas de Elastostática Usando el Método de los Elementos de Contorno. ACTA CIENTIFICA VENEZOLANA. Vol. 58, No. 1, 2007. (<http://acta.ivic.ve/>)
 16. B. Gamez, E. Divo, A. Kassab, M. Cerrolaza. Descomposicion de Dominio Iterativo en Paralelo para Problemas Termoelásticos usando el Método de Elementos de Contorno. ACTA CIENTIFICA VENEZOLANA. Vol. 58, No. 1, 2007. (<http://acta.ivic.ve/>)
 17. Erhart, K., Divo, E., and Kassab, A.J., "An Evolutionary-Based Inverse Approach for the Identification of Non-Linear Heat Generation Rates in Living Tissues using a Localized Meshless Method," International Journal of Numerical Methods

- for Heat and Fluid Flow, Vol. 18, No. 3/4, pp. 401-414, 2008.
18. Bialecki, R., Divo, E., and Kassab, A.J., "Reconstruction of Time Dependent Boundary Heat Flux by a BEM-Based Inverse Algorithm," *Engineering Analysis with Boundary Elements*, Vol. 30, pp. 767-773, 2006.
 19. Divo, E. and Kassab, A.J., "Transient Non-linear Heat Conduction Solution by a Dual Reciprocity Boundary Element Method with an Effective Posteriori Error Estimator," *CMC: Computers, Materials, & Continua*, Vol. 2, No. 4, pp. 275-288, 2006.
 20. Divo, E. and Kassab, A.J., "An Efficient Localized RBF Meshless Method for Fluid Flow and Conjugate Heat Transfer," *ASME Journal of Heat Transfer*, Vol. 129, pp. 124-136, 2007.
 21. Divo, E. and Kassab, A.J., "Iterative Domain Decomposition Meshless Method Modeling of Incompressible Flows and Conjugate Heat Transfer," *Engineering Analysis with Boundary Elements*, Vol. 30, pp. 465-478, 2006.
 22. Erhart, K., Divo, E., and Kassab, A.J., "A Parallel Domain Decomposition Boundary Element Method Technique for Large-Scale Transient Heat Conduction Problems," *Engineering Analysis with Boundary Elements*, Vol. 30, No. 7, pp. 553-563, 2006.
 23. Divo, E. and Kassab, A.J., "A Meshless Method for Conjugate Heat Transfer Problems," *Engineering Analysis with Boundary Elements*, Vol. 29, No. 2, pp. 136-149, 2005.
 24. Divo, E., Kassab, A.J., Kapat, J.S., and Chyu, M.K., "Retrieval of Multi-Dimensional Heat Transfer Coefficient Distributions Using an Inverse-BEM-Based Regularized Algorithm: Numerical and Experimental Examples," *Eng. Analysis with Boundary Elements*, Vol. 29, No. 2, pp. 150-160, 2005.
 25. Silieti, M., Divo, E., and Kassab, A.J., "An Inverse Boundary Element Method/Genetic Algorithm Based Approach for Retrieval of Multi-dimensional Heat Transfer Coefficients within Film Cooling Holes/Slots," *Inverse Problems in Science and Engineering*, Vol. 13, No.1, pp. 79-98, 2005.
 26. Divo, E., Kassab, A.J. and Rodriguez, F., "A Parallelized Iterative Domain Decomposition Approach for 3D Boundary Elements in Non-Linear Heat Conduction," *Numerical Heat Transfer, Numerical Heat Transfer, Part B: Fundamentals*. Vol. 44, No. 5. pp. 417-437, 2004.
 27. Divo, E., and Kassab, A.J., "An Efficient Singular Superposition Technique for Cavity Detection and Shape Optimization," *Numerical Heat Transfer, Part B: Fundamentals*, Vol. 45, pp. 1-30, 2004.

28. Divo, E., Kassab, A.J., and Ingber, M.S., "Shape Optimization of Acoustic Scattering Bodies," *Engineering Analysis with Boundary Elements*, Vol. 27, pp. 695-703, 2003.
29. Kassab, A., Divo, E., Heidmann, J., Steinthorsson, E., and Rodriguez, F., "BEM/FVM Conjugate Heat Transfer Analysis of a Three-Dimensional Film Cooled Turbine Blade," *International Journal for Numerical Methods in Heat and Fluid Flow*, *International Journal of Numerical Methods for Heat and Fluid Flow*, Vol. 13, No. 5, pp. 581-610, 2003.
30. Bialecki, R., Divo, E., Kassab, A.J., and Ait Maalem, R., "Explicit Calculation of Smoothed Sensitivity Coefficients for Linear Problems," *International Journal for Numerical Methods in Engineering*, Vol. 57, No. 2, pp. 143-167, 2003.
31. Bialecki, R., Divo, E., and Kassab, A.J., "Unknown Time Dependent Heat Flux Boundary Condition Reconstruction Using a BEM-Based Inverse Algorithm," *Electronic Journal of Boundary Elements*, URL: <http://tabula.rutgers.edu/EJBE/proceedings/2001/>.
32. Divo, E., Steinthorsson, E., Kassab, A.J., and Bialecki, R., "An iterative BEM/FVM protocol for steady-state multi-dimensional conjugate heat transfer in compressible flows," *Engineering Analysis with Boundary Elements*, Volume 26, No. 5, pp. 447-454, 2002.
33. Kassab, A.J., Divo, E., and Kapat, J.S., "Multi-Dimensional Heat Flux Reconstruction Using Narrow-Band Thermochromic Liquid Crystal Thermography," *Inverse Problems in Engineering*, Vol. 9, pp. 537-559, 2001.
34. Divo, E., Kassab, A.J., and Rodriguez, F., "Characterization of Space Dependent Thermal Conductivity with a BEM-Based Genetic Algorithm," *Numerical Heat Transfer, Part A: applications*, Vol. 37, No. 8, pp. 845-877, 2000.
35. Divo, E., Kassab, A.J., and Cavalleri, R.J., "Application of the DRBEM to Model Ablation Characteristics of a Thrust Vector Control Vane," *Engineering Analysis with Boundary Elements*, Vol. 23, No. 8, pp. 693-702, 1999.
36. Divo, E. and Kassab, A.J., "Generalized Boundary Integral Equation for Heat Conduction in Non-Homogeneous Media: recent developments on the sifting property," *Engineering Analysis with Boundary Elements*, Vol. 22, No.3, pp. 221-234, 1998.
37. Kassab, A.J., and Divo, E., "Author's Reply to Bonnet and Guiggiani Comments on the Sifting Property," *Engineering Analysis with Boundary Elements*, Vol. 22, No. 3, pp. 241-244, 1998.

38. Divo, E. and Kassab, A.J., "A Generalized BIE for Transient Heat Conduction in Heterogeneous Media," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 12, No. 3, pp. 364-373, 1998.
39. Divo, E. and Kassab, A.J., "A Boundary Integral Equation for Steady Heat Conduction in Anisotropic and Heterogeneous Media," *Numerical Heat Transfer, Part B: fundamentals*, Vol. 32, No. 1, pages 37-61, 1997.
40. Kassab, A.J. and Divo, E., "A General Boundary Integral Equation for Isotropic Heat Conduction Problems in Bodies with Space Dependent Properties," *Engineering Analysis with Boundary Elements*, Vol. 18, No. 4, pp. 273-286, 1996.

Refereed Conference Papers:

1. Andres F. Osorio, Alain J. Kassab, Eduardo A. Divo, I. Ricardo Argueta-Morales, William M. DeCampli, "Computational Fluid Dynamics Analysis of Surgical Adjustment of Ventricular Assist Device Implantation to Minimize Stroke Risk," IMECE2009-12813, Proceedings of ASME-IMECE 2009, Lake Buena Vista, FL, November 13-19, 2009.
2. Vidal, A., Huayamave, V., Divo, E., Kassab, A.J., Santhanam, and A., Kupelian, P., "Localized RBF Meshless Method for the Fluid-Poro-Elastic Interaction Problem in Lung Dynamics", Proceedings of ASME-IMECE 2009, Lake Buena Vista, FL, November 13-19, 2009.
3. Huayamave, V., Vidal, A., Divo, E., Kassab, A.J., Santhanam, and A., Kupelian, P., "Fluid-Structure Interaction Solution of Lung Dynamics using a Localized RBF Meshless Method," Proceedings of BEM/MRM 31, International Conference on Boundary Elements Method and other Mesh Reduction Method, Wessex, New Forest, England, September 2-4, 2009.
4. Divo, E., Kassab, A.J., Reddi, L., Kakuturu, S., and Hagen S., "RBF-FVM Numerical Solution of the Poro-Elasticity Levee Problem with Time-Varying Boundary Conditions," Proceedings of ECCOMAS Couple Problems 2009, Ischia Island, Italy, June 8-10, 2009.
5. Osorio, A., Kassab, A.J., Divo, E., Argueta, I.R., and DeCampli, W., "Computational Analysis of Alternative Aortic Bypass for Left Ventricular Assist Devices using a Coupled Eulerian-Lagrangian Approach," Proceedings of ECCOMAS Couple Problems 2009, Ischia Island, Italy, June 8-10, 2009.
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2. El Zahab, Z., Divo, E., and Kassab, A.J., "Localized Collocation Meshless Method (LCMM) Shape Optimization of Vascular Grafts. Part I: LCMM Hemodynamics Modeling," ICCES 2008: International Conference on Computational & Experimental Engineering and Sciences. Honolulu, Hawaii, March 16-22, 2008.
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9. Silieti, M., Divo, E., and Kassab, A.J., "An Inverse Boundary Element Method/Genetic Algorithm Based Approach for Retrieval of Multi-dimensional Heat Transfer Coefficients within Film Cooling Slots," IABEM 2004, May 24-26, 2004. Minneapolis, MN, USA.
10. Divo, E. and Kassab, A.J., "A Domain Decomposition Approach Applied to a Meshless Solution of Heat Transfer and Fluid Flow Problems," BEM 26, 26th International Conference on Boundary Element Methods and other Mesh Reduction Methods. April 19-21, 2004. Bologna, Italy.
11. Eduardo Divo, A. Kassab, and J. Kapat, "Determination of Heat Transfer Coefficients Using Thermochromic Liquid Crystal Thermography - A Steady-State Application," Session I, Session Chairman, Keith Woodbury Tenth Inverse Problems in Engineering Seminar Program, June 5-6, 2000, University of Texas, Arlington.
12. Divo, E., Kassab, A.J., and Rodriguez, F., "A Steady-State BEM-based inverse approach to identifying unknown multidimensional thermal conductivity of non-homogeneous materials," Session 1C (Nonlinear and inverse problems), Symposium on Advances in Boundary Element Methods organized by J. Bialek, T. L. Cruse, G. Maier, R. Pak, during USNCCM'99, Fifth US National Congress on Computational Mechanics, University of Colorado at Boulder, CO, USA-

August 4-6, 1999 (by invitation only).

13. Divo, E. and Kassab, A.J., "A New Boundary Element Method for Heat Conduction in Non-Homogeneous Media," 13th US National Congress on Applied Mechanics, June 21-26, 1998, University of Florida, Gainesville, Florida.
14. Kassab, A.J. and Divo, "Boundary Integral Error Estimate for the Sifting Property of the Forcing Function Used in the Generalized Boundary Integral Equation for Heat Conduction in Non-Homogeneous Media," IABEM98, 1998 International Symposium on Boundary Element Methods, Ecole Polytechnique, Plaiseau, France, May 26-29, 1998.
15. Rodriguez, F., Divo, E., and Kassab, A.J., "An Inverse Boundary Element Method for Characterization of Thermal Conductivities of Non-Homogeneous Aerospace Materials," NASA, 1st Annual Partners in Education and Research Conference, Cocoa Beach, October 6-8, 1998.
16. Kassab, A.J. and Divo, "A Boundary Only BEM for Heat Conduction in Heterogeneous Media," Symposium on BEM in Mechanics, p. 81, 1997 Joint Summer Meeting of the ASME, ASCE, and SES, Evanston, IL, USA. June 29-July 2, 1997.

Short Courses, Invited Talks, Keynote Addresses:

1. Kassab, A. and Divo, E., "Meshless Methods in Biomedical Applications," Keynote Lecture at the ICCES Special Symposium on Meshless & Other Novel Computational Methods, Aug 31- Sep 2, 2009, Bistra Castle, Ljubljana, Slovenia.
2. Kassab, A. and Divo, E., "Conjugate Heat Transfer," Keynote Lecture at ECCOMAS Couple Problems 2009, Ischia Island, Italy, June 8-10, 2009.
3. Divo, E., "Upwinded Localized Collocation Meshless Method for Thermo-Fluids Modeling," Invited Talk at the Heat Transfer Education Session of the 2008 ASME Summer Heat Transfer Conference, Jacksonville, FL, August 10-14, 2008.
4. Divo, E., "RBF-Based Meshless Computational Fluid Dynamics," Invited Talk at Embry-Riddle Aeronautical University, Daytona Beach, FL, April 23, 2008.
5. Divo, E., "Beyond Grids: Meshless Incompressible Flow CFD," Invited short course at ASME SHT/InterPack 2007, Vancouver, BC, Canada, July 8, 2007.
6. Kassab, A.J. and Divo, E., "Singular-Superposition Method for the Inverse Geometric Problem - applications in heat transfer and elasticity," Invited mini-symposium presented at the 2007 Applied Inverse Problems Conference, Vancouver, BC, Canada, June 25-29, 2007.

7. Divo, E., "Computational Mechanics. Numerical Methods in Mechanical Engineering," Invited Talk at Jose Antonio Paez University, San Diego, Venezuela, March 17, 2006.
8. Kassab, A.J. and Divo, E., "Fractional Time Step Localized Meshless Method for Forced and Natural Convective Heat Transfer," 44th AIAA Aerospace Science Meeting and Exhibition, Jan. 9-12, 2006, Reno, NV. (Invited panel session).
9. Kassab, A.J. and Divo, E., "Boundary Elements and Other Mesh Reduction Methods," Short Course at the NASA Thermo-fluids Analysis Workshop (TFAWS 2005), Orlando, August 9-12, 2005.

Reviewing:

- ASME Journal of Heat Transfer
- International Journal of Numerical Methods in Engineering (IJNME)
- Computers and Fluids Journal
- Numerical Heat Transfer NHT2005
- EUROTHERM.
- Engineering Analysis with Boundary Elements.
- International Journal of Heat and Mass Transfer.
- Cambridge University Press.
- Journal of Inverse Problems in Science and Engineering (IPSE).
- BEM/MRM: International Conference in Boundary Element and Mesh Reduction Methods.
- BETECH: International Conference in Boundary Element Technology.
- SECTAM: South Eastern Conf. in Theoretical and Applied Mechanics.

Chair/Co-Chair of International Conferences:

- Member of Organizing Committee for NASA's 16th Annual Thermal and Fluids Analysis Workshop TFAWS05. UCF, Orlando, FL, August 8-12, 2005.
- 27th World Conference on Boundary Elements and Other Mesh Reduction Methods (BEM 27/MRM). Kassab, A.J., Brebbia, C.A., and Divo, E., co-chairs. UCF, Orlando, Florida, March 12-15, 2005.
- BETECH2001, the 14th International Boundary Element Technology Conference. Kassab, A.J., Brebbia, C.A., Chopra, M.B. and Divo, E., co-chairs. UCF, Orlando, Florida, March 12-14, 2001.

Conference Sessions Chaired/Organized:

- Co-organized and co-chaired Session in Heat Transfer Education at the 2008 ASME Summer Heat Transfer Conference, Jacksonville, FL, August 10-14, 2008.
- Organized Minisymposium on Advances In Mesh-Reduction Techniques: BEM and Meshless Methods, for the 8th World Congress on Computational Mechanics and 5th European Congress on Computational Methods in Applied Sciences and Engineering. Venice, Italy, June 30 – July 5, 2008.
- Organized Minisymposium on Inverse Problems in Heat Transfer, for the 8th World Congress on Computational Mechanics and 5th European Congress on Computational Methods in Applied Sciences and Engineering. Venice, Italy, June 30 – July 5, 2008.
- Organized Session on Meshless and other Mesh-Reduction Methods for the ASME Summer Heat Transfer Conference, Jacksonville, FL, Aug. 10-14, 2008.
- Member of the International Scientific Advisory Board for BEM/MRM 2007 and Co-chair of Session, 29th International Conference on Boundary Element Methods and other Mesh-Reduction Methods. June 4-6, 2007. New Forest, UK.
- Organized and Chaired a Session on Coupled Fluid-Structure-Thermal Interaction Problems at ECCOMAS 2007, European Congress on Computational Methods in Applied Sciences and Engineering. May 21-23, 2007. Ibiza, Spain.
- Chaired sessions 6 and 9 at CIMENICS 2006, 8th International Congress of Numerical Methods in Engineering and Applied Sciences. Margarita Island, Venezuela, March 20-24, 2006.
- Organized and chaired session HTD K20 Coupled Field Problems at the ASME IMECE 2005 Congress in Orlando, Florida, November 2005.
- Chaired session S17 "Other Applications II", Numerical Heat Transfer NHT2005 EURO THERM Symposium 82, Krakow, Poland, Sept. 13-17, 2005.
- Organized and chaired Minisymposium on Conjugate Heat Transfer and Thermoelasticity for the ECCOMAS Conference on Computational Methods for Coupled Problems in Science and Engineering, May 25-28, 2005, Santorini, Greece.

- Organized and chaired session HT-1D K20 Boundary Element Methods in Heat Transfer, Sunday, Nov. 14, at the ASME IMECE 2004, Anaheim, California.
- Chaired Session 5 on advanced Mesh Reduction, Tuesday, April 20, 2004, at BEM 26, Bologna, Italy, April 19-21, 2004.
- Chaired Session at ISIP2003, International Symposium on Inverse Problems in Engineering Mechanics 2003, Nagano, Japan, February 18-21, 2003.
- Chaired Session at SECTAM XXI, the 21st Southeast Conference on Theoretical and Applied Mechanics, UCF, Orlando, Florida, May 19-21, 2002.
- Chaired Session at BETECH2001, the 14th International Boundary Element Technology Conference, UCF, Orlando, Florida, March 12-14, 2001.