

Curriculum Vitae of Autar K. Kaw

CONTACT INFORMATION

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EDUCATION

Ph.D. Clemson University, 1987, Engineering Mechanics.
M.S. Clemson University, 1984, Engineering Mechanics.
B.E. (Hons.) Birla Institute of Technology and Science, 1981, Mechanical Engineering.

ACADEMIC EXPERIENCE:

Aug 96 - Present: Professor, Mechanical Engineering, University of South Florida.
Aug 92 - Aug 96: Associate Professor, Mechanical Engineering, University of South Florida.
Aug 87 - Aug 92: Assistant Professor, Mechanical Engineering, University of South Florida.
Aug 82 - Dec 83: Graduate Research Assistant, Mechanical Engineering, Clemson University.
May 84 - Aug 87 Principal Graduate Research & Teaching Assistant, Mechanical Engineering, Clemson University.

NON-ACADEMIC EXPERIENCE:

June 92 - Aug 92: AFOSR Summer Faculty Research Associate, Materials Directorate, Wright Patterson Air Force Base, Ohio.
May 91 - Aug 91: Visiting Scientist, Materials Directorate, Wright Patterson Air Force Base, Ohio.
Aug 81 - Aug 82: Maintenance Engineer, Escorts Tractors Limited, Faridabad, India.
June 80 - Dec 80: Practice School Intern, National Thermal Power Corporation, Delhi.

AWARDS AND HONORS:

ASEE DELOS Best Paper Award, 2006
The Division for Experimentation and Laboratory Oriented Studies (DELOS) Division of ASEE recognizes individuals for excellence in the preparation and presentation of a paper in a DELOS session at the ASEE Annual Conference

Fellow ASME, 2005
Fellows have attained a membership grade of distinction who have been responsible for significant engineering achievements

Florida Professor of the Year, CFAT & CASE, 2004
Given once a year to an outstanding professor in the 50 states jointly by the Carnegie Foundation for the Advancement of Teaching (CFAT) and Council for Advancement and Support of Education (CASE)

ASME Curriculum Innovation Award, ASME, 2004
Given once a year to recognize & encourage innovation in Mechanical Engineering education

Archie Higdon Mechanics Educator Award, ASEE, 2003
Given once a year to an outstanding mechanics educator in the nation

Engineer of the Year, ASME Florida West Coast Section, 2003
Given once a year for outstanding contributions and professional services to engineering

Jerome Krivanek Distinguished Teacher Award, USF, 1999.
Given once a year to an outstanding teacher in the university

Teaching Incentive Program Award, State University System of Florida, 2007, 1997, 1994.

Given to about 8% of the faculty in FL public universities who are outstanding in undergraduate teaching
 College of Engineering Teaching Excellence Award, USF, 1995, 1990.
Given to an outstanding teacher in the college
 University Wide Outstanding Undergraduate Teaching Award, USF, 1996, 1990.
Given to about 1-2% of faculty who are outstanding teachers in the university
 Outstanding Contributions in Research Award, Southeast Section of American Society of Engineering Education (ASEE), 1996.
Given based on selecting the best technical paper submitted by Colleges of Engineering in the Southeast USA
 Outstanding New Mechanics Educators Award, American Society of Engineering Education (ASEE), 1992.
Given to an outstanding Mechanics Educator in the nation with less than five years of educational experience.
 Ralph R. Teetor Educational Award, Society of Automotive Engineers (SAE), 1991.
 Given to engineering educators in the nation to recognize teaching, research and service
 Faculty Honor Guard, USF, 1989/90.
Nominated by students and given to about six faculty members in the university
 Outstanding Graduate Teaching Assistant Award, Mechanical Engineering Department, Clemson University, 1985.
Given to an outstanding teaching assistant in the department
 Dupont Fellow, NSF/ASEE Faculty Development Program, Summer 1989.
Given for faculty development that includes stipend and travel expenses
 Certificate of Service/Dedication
 ASME Southeastern Region, 1989-90.
 ASME Florida West Coast Chapter, 1989-90.
 ASME USF Student Section, 1989-90.
 Marquis Who's Who in
 America, 1997-
 South and Southwest of America, 1992-
 America's Young Professionals, 1993-
 Education, 1993-
 Science and Engineering, 1993-.

EXTERNAL GRANTS AND CONTRACTS:

“Collaborative Research: Development of New Prototype Tools, and Adaptation and Implementation of Current Resources for a Course in Numerical Methods, National Science Foundation”, \$150,000, February 2009- July 2010 (Co-PI).

“Holistic Numerical Methods: Unabridged”, National Science Foundation, \$500,189, January 2008-December 2010, (PI).

“Holistic Numerical Methods”, National Science Foundation, \$363,280, March 2004 – December 2007 (PI).

“Hub Assemblies for the Next Generation of Bascule Bridges”, US Department of Transportation, \$73,650, October 2004 – September 2005 (Co-PI).

“Holistic Numerical Methods: A Prototype”, National Science Foundation, \$74,961, January 2002-November 2003 (PI).

“Hub-Girder Bolt Assembly without An Interference Fit in Bascule Bridges”, Florida Department of Transportation, \$110,000, November 2001 – August 2003 (Co-PI).

"Parametric Finite Element Analysis and Full Scale Testing of Trunnion Hub Assemblies for Bascule Bridges", Florida Department of Transportation, \$250,000, September 1998 – August 2001 (Co-PI).

"Acquisition of an Axial-Torsional Loading System for Civil, Mechanical and Materials Testing", National Science Foundation, \$166,240, October 1999 - April 2001 (Co-PI).

"Mechanics of Brittle Matrix Composites with Imperfect Interfaces," Air Force Office of Scientific Research, \$108,319, July 1995- August 1997 (PI).

"Mechanics of Brittle Matrix Composites with Imperfect Interfaces," Air Force Office of Scientific Research, \$50,000, September 1994 - June 1995 (PI).

"Micromechanics of Matrix Cracking in Brittle Matrix Composites with Frictional Interfaces," Summer Research Extension Program, Research and Development Laboratory/Air Force Office of Scientific Research, \$20,000, January 1993 - December 1993 (PI).

"Mechanics of Brittle Matrix Composites with Imperfect Interfaces," Air Force Office of Scientific Research, \$93,211, September 1992 - September 1994 (PI).

"Annular Cracks In Brittle Matrix Composites," Systran Corporation/Wright Patterson AFB, Dayton, Ohio, \$14,100, May 91 - August 1991 (PI).

"Design and Analysis of Stainless Steel Tanks," Montgomery Tank Lines, Plant City, Florida, \$27,653, October 89 - May 90 (Co-PI).

TEXT BOOKS:

A.K. Kaw, "Mechanics of Composite Materials," CRC Press LLC, May 1997, second edition November 2005

A.K. Kaw, E. Kalu, "Numerical Methods with Applications", lulu.com, December 2008.

Co-Author, "Fundamentals of Engineering Examination Sample Questions: General Engineering," lulu.com, June 2009.

A.K. Kaw, "Introduction to Matrix Algebra", lulu.com, March 2008.

Co-Author, "Fundamentals of Engineering Preparation Guide," Research and Engineering Associates, Piscataway, 1991-current.

REFEREED PAPERS:

A. Kaw, A. Yalcin, "A Metric to Quantify the Topsy-Turvyness of a College Football Season", Chance, pp. 18-26, Vol. 22(3), 2009.

A. Kaw, A. Yalcin, B. DeMenezes, E. Allard, "Introducing and Assessing Laboratory Experience in a Numerical Methods Course for Engineers", ASEE Computers in Education Journal, pp. 57-65, Vol. XVIII (3), 2009.

A.K. Kaw, A.Yalcin, "Problem-Centered Approach in a Course in Numerical Methods", ASCE Journal of Professional Issues and Engineering Education, pp. 359-364, Vol. 134(4), 2008.

Nguyen, A.K. Kaw, J. Paul, "Sensitivity Analysis of Cooling Methods and Geometric Parameters in Assembly Procedure of Bascule Bridge Fulcrums", The Journal of Strain Analysis for Engineering Design, pp. 337-349, Vol. 42, (2007).

- A.K. Kaw, M. Hess, "Comparing Effectiveness of Instructional Delivery Modalities in an Engineering Course", *International Journal of Engineering Education*, pp. 508-516, Vol. 23(3), 2007.
- P. Chalasani, A.K. Kaw, J. Daly, C. Nguyen, "Effect of Geometrical and Material Parameters in Nanoindentation of Layered Materials with an Interphase", *International Journal of Solids and Structures*, pp. 5380-5395, Vol 44 (16), 2007.
- A.K. Kaw and S. Ho, "Introducing Approximate Methods in Theory of Elasticity", *Computer Applications for Engineering Education*, pp. 120-134, Vol. 14 (2), 2006.
- N. Collier, A.K. Kaw, G.H. Besterfield, M. Rahman, "Benefits of Staged Cooling of Composite Cylinders in Shrink Fitting", *The Journal of Strain Analysis for Engineering Design*, pp. 349-361, Vol. 41 (5), 2006.
- A.K. Kaw, G.H. Besterfield, J. Eison, "Effectiveness of a Holistic & Customized Approach to Teaching Numerical Methods", *International Journal of Engineering Education*, pp. 712-722, Vol. 21 (4), 2005.
- A.K. Kaw, "Techniques Employed by Highly Effective Engineering Educators", *ASCE Journal of Professional Issues and Engineering Education*, pp. 175-177, Vol. 131 (3), 2005.
- A.K. Kaw, G.H. Besterfield and S. Nichani, "Integrating a Research Problem in a Course in Applied Elasticity", *International Journal of Mechanical Engineering Education*, pp. 232-242, Vol. 32 (3), (2004).
- N. Collier, A.K. Kaw, "On Comparing Computational Systems – Maple, Mathcad, Matlab, and Mathematica", *ASEE Computers in Education Journal*, pp. 12-24, Vol. XIV (1), (2004).
- A.K. Kaw, N. Collier, M. Keteltas, J. Paul, G.H. Besterfield, "Holistic but customized resources for a course in numerical methods", *Computer Applications for Engineering Education*, pp. 203-210, Vol. 11, (2003).
- G.H. Besterfield, A.K. Kaw, S. Nichani, B. Ratnam, T. Cherukara, M. Denninger "Assembly Procedures of a Trunnion-Hub-Girder for Bascule Bridges", *Theoretical and Applied Fracture Mechanics*, Vol 40, No 2, pp. 123-134, (2003).
- G.H. Besterfield, S. Nichani, A.K. Kaw, T. Eason, "Full-Scale Testing of Trunnion-Hub-Girder Assemblies for Bascule Bridges", *ASCE Journal of Bridge Engineering*, Vol. 8, No. 4, pp. 204-211, (2003).
- N. Pai, A.K. Kaw and M. Weng, "Optimization of Laminate Stacking Sequence for Failure Load Maximization Using Tabu Search", *Composites Part B*, Vol. 34, No. 1, pp 405-413, (2003).
- J. Ye and A.K. Kaw, "Determination of Mechanical Properties of Fiber-Matrix Interface from Pushout Test", *Theoretical and Applied Fracture Mechanics*, Vol. 32, No 1, pp 15-25, (1999).
- A.K. Kaw and R. Rodriguez, "Synthesis of Tools in Teaching a Course in Mechanics of Composite Materials", *Mechanics*, Vol. 27, No. 11, pp. I-VI, (1998).
- A.K. Kaw and G. Willenbring, "A Software Tool for Mechanics of Composite Materials", *International Journal of Engineering Education*, Vol. 13, No. 6, pp. 433-481, (1998).
- T. Srinath, H. Madanraj, A.K. Kaw, J. Ye and G.H. Besterfield, "Effect of Extrinsic and Intrinsic Factors in Indentation Tests," *International Journal of Solids and Structures*, Vol. 33, No. 24, pp.

3497-3516 (1996).

A.K. Kaw and M. Daniels, "Should We Continue to Debate over the Change to SI System?," ASCE Journal of Professional Issues in Engineering Education and Practice, Vol. 122, No. 2, pp. 69-72 (1996).

N.J. Pagano and A.K. Kaw, "Asymptotic Stresses Around a Crack Tip at the Interface Between Planar or Cylindrical Bodies," International Journal of Fracture, Vol. 71, No. 2, pp. 151-164, (1995).

A.K. Kaw, S. Kunchithpatham, N.J. Pagano, "Stress Field in a Composite Cylinder with a Friction Fiber-Matrix Interface," International Journal of Solids and Structures, Vol. 32, No. 15, pp. 2127-2154, (1995).

V.T. Bechel and A.K. Kaw, "Fracture Mechanics of Composites with Nonhomogeneous Interphases and Nondilute Fiber Volume Fractions," International Journal of Solids and Structures, Vol. 31, No. 15, pp. 2053-2070, (1994).

A.K. Kaw and J. Ye, "Comparison of Fracture Mechanics Models with Axisymmetric and Planar Assumptions," Composites Engineering Journal, Vol. 4, No. 6, pp. 621-636, (1994).

A.K. Kaw and D. Jadhav, "Axisymmetric Elastic Response of a Composite Cylinder with a Broken Fiber", Theoretical and Applied Fracture Mechanics, Vol. 21, pp. 197-206, (1994).

V. Bechel and A.K. Kaw, "On Using a Symbolic Manipulator in Teaching Classical Elasticity," ASEE Computers in Education Journal, Vol. 4, No. 2, pp. 55-59, (1994).

A.K. Kaw and N.J. Pagano, "Axisymmetric Thermoelastic Response of a Composite Cylinder Containing an Annular Crack", Journal of Composite Materials, Vol. 23, No. 6, pp. 540-571, (1993).

A.K. Kaw and K.S. Gadi, "Mechanics of Fiber-Reinforced Composites with Doubly Periodic Cracks," Theoretical and Applied Fracture Mechanics, Vol. 19, No. 3, pp. 173-182, (1993).

A.K. Kaw, D. Jadhav, G. Sudhakar, "On Solving Crack Problems in Fiber Reinforced Composites by Symbolic Manipulations," Advances in Engineering Software and Workstations, Vol. 16, No. 1, pp. 31-36, (1993).

A.K. Kaw and G.H. Besterfield, "Periodic Matrix Cracking in Brittle Matrix Composites," International Journal of Solids and Structures, Vol. 29, No. 10, pp. 1193-1207, (1992).

A.K. Kaw, A. Selvarathinam and G.H. Besterfield, "Comparison of Interphase Models for a Crack in Fiber Reinforced Composites," Theoretical and Applied Fracture Mechanics, Vol. 17, pp. 133-147, (1992).

A.K. Kaw, "Numerical Solutions of Strong Integrals in Hadamard's Sense," IMSL Directions, Vol. 9, No. 1, pp. 8-9, (1992).

A.K. Kaw, "An Instructional Interactive Aid for Mechanics of Composites," International Journal of Mechanical Engineering Education, Vol. 20, No. 3, pp. 213-229 (1992).

A.K. Kaw and G.H. Besterfield, "Effect of Interphases on Mechanical Behavior of Composites," ASCE Journal of Engineering Mechanics, Vol. 117, No. 11, pp. 2641-2658, (1991).

A.K. Kaw and V.G. Das, "A Crack in an Imperfect Interface in Composites," Mechanics of Materials, Vol. 11, pp. 295-322, (1991).

A.K. Kaw and J.G. Goree, "The Semi-Infinite Strip Problem in Mechanics of Composites," *ASTM Journal of Composite Technology and Research*, Vol. 13, No. 2, pp. 65-77, (1991).

A.K. Kaw, "Cauchy Singular Integral Equations with Logarithmic Singular Integrands in Solid Mechanics," *Mechanics Research Communications*, Vol. 18, No.5, pp. 261-268, (1991).

A.K. Kaw, "On Evaluating Integrals with Strongly Singular Integrands," *Advances in Engineering Software and Workstations*, Vol. 13, No. 2, pp. 84-103, (1991).

A.K. Kaw and J.G. Goree, "The Effect of Interleaves on Fracture of Laminated Composites: Part I - Analysis," *ASME Journal of Applied Mechanics*, Vol. 57, No. 1, pp. 168-174, (1990).

A.K. Kaw and J.G. Goree, "The Effect of Interleaves on Fracture of Laminated Composites: Part II - Solution and Results," *ASME Journal of Applied Mechanics*, Vol. 57, No. 1, pp. 175-181, (1990).

A.K. Kaw, "Some Simple Tools to Develop Educational Software," *The Quickbasic Journal*, Vol. 1, No. 3, pp. 23-29, (1990).

A.K. Kaw and J.G. Goree, "Analysis of Notched Laminates with Interlaminar Debonding," *Journal of Engineering Fracture Mechanics*, Vol. 22, No. 6, pp. 1013-1029, (1985).

NEWSPAPER COLUMNS:

The Real Deal About USF's Graduation Rate, *Tampa Tribune*, Opinion Editorial, November 30, 2007

Loss of PIP won't stem the flood of bloated medical bills, *St Petersburg Times*, Guest Column, September 27, 2007

Reform Long Overdue In Pakistan, Painful As It May Be, *Tampa Tribune*, Commentary, November 8, 2007

Hot fuel robbing you, *Tampa Tribune*, Commentary, June 22, 2007.

Ten ways to be green, *St Petersburg Times*, Guest Column, June 1, 2007.

Shame on you: Florida Medallion Scholar, *Oracle*, February 20, 2007.

You never call me anymore, *St. Petersburg Times*, Guest Column, November 17, 2006.

Universities Setting Tuition Need to Submit Categorical Plan, *Tampa Tribune*, Other Views, October 3, 2006.

The Da Vinci Code is Not a Major Threat to Christianity, *Tampa Tribune*, Excerpt published, May 16, 2006.

Stop Meddling in Our Schools, *Tampa Tribune*, November 7, 2005.

Like Combating Weeds, Fighting Terrorism, *St. Petersburg Times*, Guest Column, September 4, 2005.

USF Outsourcing Not True, *Tampa Tribune*, Opinion Editorial, May 20, 2004.

Block the Block Tuition Proposal, *Tampa Tribune*, Guest Column, April 10, 2004.

Crazy for Atkins' Diet, Tampa Tribune, Opinion Editorial, December 12, 2003.

Being Faithful to History, Tampa Tribune, Special Correspondent, February 1, 2003.

A Hope For Justice In Distant Homeland, Tampa Tribune, Opinion Editorial, June 10, 2002.

Should I Join The Cell Phone World, St Petersburg Times, Guest Column, August 27, 2000.

A Message of Congratulations and Advice to College Graduates, St Petersburg Times, Guest Column, June 11, 2000.

Alternative Advice to Graduates, The Tampa Tribune, Opinion Editorial, June 13, 2000.

SUVs: Be a Sport, Watch Out for Cars, St Petersburg Times, Guest Column, August 1, 1999.

Beyond Vengeance To Peace of Mind, The Tampa Tribune, Special Correspondent, December 5, 1998.

OTHER PUBLICATIONS:

M. Hess, C. Owens, A. Kaw, "On Evaluating and Rating Online Resources for a Numerical Methods Course in Engineering Work in Progress", Proceedings of ASEE 2009 Conference in Austin, TX, June 15-18, 2009.

M. Hess, C. Owens, A. Kaw, "Evaluating the Impact of Web Based Resources on Student Learning and Satisfaction: Lessons Learned for Postsecondary Courses", Proceedings of the 2008 AERA Conference in Denver, CO, Nov 5 -8, 2008, Denver, Colorado.

A.K. Kaw, A. Yalcin, B. Demenezes, E. Allard, "Work in Progress - On Introducing Experiments in a Numerical Methods Course", Proceedings of the 2008 FIE Conference, Saratoga, NY, October 22-25, 2008.

Work in Progress - On Introducing Experiments in a Numerical Methods Course, Proceedings of the 2008 FIE Conference, Saratoga, NY, October 22-25, 2008.

Low Cost, Low Space, Low Setup Experiments for a Course in Numerical Methods, Proceedings of the ASEE-SE Conference, Memphis, TN, April 6-8, 2008.

A.K. Kaw, "Incorporating a Research Problem in a Numerical Methods Course for Mechanical Engineers", Proceedings of the ASEE Conference & Exposition, Honolulu, HI, June 24-27, 2007.

A.K. Kaw, M. Hess, "Assessing Teaching Methods for a Course in Numerical Methods," Proceedings of the ASEE Conference & Exposition, Chicago, IL, June 18-21, 2006.

M. Hess, A.K. Kaw, "Face-to-Face, or Hybrid Approaches to Instruction: An Evaluation of Four Delivery Methods in Numerical Methods Course", FERA, Jacksonville, FL, November 15-17, 2006.

A.K. Kaw, M. Hess, "Assessing Teaching Methods for a Course in Numerical Methods," Proceedings of the ASEE Conference, Chicago, IL, June 18-21, 2006.

A.K.Kaw, G.H. Besterfield, "Novel Web-Based Resources for Numerical Methods", Annual ASME Conference & Exposition, Nov 14-18, 2004, Anaheim, CA.

A.K. Kaw, M. Keteltas, J. Paul, J. Eison, G. Besterfield, "Web-Based Resources for a Course in Numerical Methods", Proceedings of the FIE Conference, Boulder, Nov 5-8, 2003.

- A.K. Kaw, "Seven Traits of Highly Effective Engineering Educators", Proceedings of the ASEE Annual Conference & Exposition, June 22-25, 2003.
- G.H. Besterfield, S. Nichani, A.K. Kaw, T. Eason, T. Cherukara, "Avoiding Failures During Assembly of a Trunnion-Hub-Girder for Bascule Bridges", ASME Paper#DE71802, ASME International Mechanical Engineering Congress, November 17-22, 2002.
- T. Cherukara, G.H. Besterfield, A.K. Kaw, "Parametric Analysis and Ultimate Testing of Bascule Trunnion Assemblies", Heavy Movable Structures, Inc. Ninth Biennial Symposium, October 23-25, 2002.
- A.K. Kaw, G.H. Besterfield, S. Nichani, "Integrating a Research Problem in a Course in Applied Elasticity", Proceedings of ASEE-SE Section, Gainesville, FL, April 7-9, 2002.
- G.H. Besterfield, T. Cherukara, A. Kaw, B. Ratnam, "Optimization of Trunnion-Hub-Girder Assemblies in Bascule Bridges", Proceedings of ICCE7, Denver, CO, June 2000.
- G.H. Besterfield, T. Cherukara, A. Kaw, B. Ratnam, "Failure Studies of Trunnion-Hub-Girder Assemblies in Bascule Bridges", Proceedings of ICCE6, Orlando, FL, June 27 - July 1, pp. 405-406, 1999.
- A.K. Kaw, J. Ye, "Extraction of Mechanical Properties of the Fiber-Matrix Interface in Ceramic Matrix Composites", Proceedings of ICCE5, Las Vegas, NV, July 5-July 11, pp. 465-466, 1998.
- A.K. Kaw, G.H. Besterfield, P. Krishnan, "Simulation of a Slice Compression Test", ASME Summer Annual Meeting, Evanston, IL, June 29- July 1, 1997.
- A.K. Kaw, "PROMAL for WINDOWS: A Tool for Mechanics of Composites", ASME Summer Annual Meeting Workshop, Baltimore, MD, June 12-14, 1996.
- A.K. Kaw, J. Ye, G.H. Besterfield, H. Madanraj, "Effect of Extrinsic Factors in the Push-Out Results", Micromechanics and Constitutive Modeling of Composite Materials, eds. Zbib, H., ASME, New York, pp. 165-180, 1995.
- A.K. Kaw, S. Kunchithpatham, N.J. Pagano, "Axisymmetric Thermoelastic Response of a Composite Cylinder with Matrix Cracking and a Frictional Fiber-Matrix Interface," First International Conference on Composites Engineering, New Orleans, LA, pp. 255-256, 1994.
- A.K. Kaw and S. Chidambaranathan, "Fracture Mechanics of Brittle Matrix Composites with Frictional Interfaces," Eighteenth Mechanics of Composites Review, Dayton, OH, pp. 183-192, 1993.
- V.T. Bechel and A.K. Kaw, "Effect of Nonhomogeneous Interphases and Nondilute Fiber Volume Fractions on Fracture Mechanics of Composites," Recent Advances in Structural Mechanics, eds. H.H. Chung and Y.W. Kwon, ASME, New York, NY, pp. 95-106, 1993.
- A.K. Kaw and K.S. Gadi, "Mechanics of Parallel Periodic Collinear Cracks in Brittle Matrix Composites," Damage Mechanics in Composites, eds. D.H. Allen and D.C. Logoudos, ASME, New York, NY, pp. 13-30, 1992.
- A.K. Kaw, and G.H. Besterfield, "On Mechanics of Periodic Matrix Cracks in Brittle Matrix Fiber Reinforced Composites," Proceedings of the 6th Japan-US Conference on Composite Materials, Technomic Publishers, Lancaster, PA, pp. 474-482, 1992.
- A.K. Kaw, D. Jadhav, G. Sudhakar, "Solving a Fracture Problem in Fiber Reinforced Composite

Materials through Symbolic Manipulation," Engineering Science Preprint, 28th Engineering Science Conference, University of Florida, Gainesville, November 6-8, 1991.

A.K. Kaw, A. Selvarithanam, and G.H. Besterfield, "Comparison of Interphase Models for a Fracture Problem in Composite Materials," Proceedings of the 22nd Midwestern Theoretical and Applied Mechanics Conference, Rolla, MO, October 6-8, 1991.

G.H. Besterfield, C. Rachakonda, and A.K. Kaw, "Probabilistic Fiber Pullout in Composite Materials," Proceedings of the First US National Congress on Computational Mechanics, Chicago, July 21-24, 1991.

G.H. Besterfield, K. Aysola, and A.K. Kaw, "Probabilistic Macromechanics Composite Analysis," Proceedings of the First US National Congress on Computational Mechanics, Chicago, July 21-24, 1991.

A.K. Kaw and S. Jourdenais, "PROMAL: A Computer Aided Instruction Program for Mechanics of Composite Materials," Annual ASEE Conference, New Orleans, June 16-20, 1991.

A.K. Kaw and G. H. Besterfield, "Mechanical Behavior of Composites with an Interphase," Mechanics Computing in 1990s and Beyond, eds. H. Adeli and R.L. Sierakowski, ASCE, New York, pp. 1113-1117, 1991.

A.K. Kaw and V.G. Das, "A Crack in Tension in an Imperfect Interface," Proceedings of the Second Pan American Congress of Applied Mechanics, Valparaiso, Chile, January 2-5, 1991.

A.K. Kaw, "Solution of Integral Equations with Cauchy Singularity and Logarithmically Singular Integrands," Proceedings of 26th Engineering Science Conference, University of Michigan, Ann Arbor, September 18-20, 1989.

A. K. Kaw, "Mechanics of Composite Materials," Final Report of the Florida Space Research and Development Workshop, Orlando, February 8-9, 1989.

A.K. Kaw and J.G. Goree, "Stresses in a Semi-Infinite Problem," Engineering Science Preprint (Paper No. ESP25.88015) First Joint Applied Mechanics and Engineering Science Conference, University of California, Berkeley, June 20-22, 1988.

A.K. Kaw and J.G. Goree, "Damage Growth in Composite Laminates with Interleaves," Proceedings of the Sixth International Conference on Composite Materials, eds. F.L. Mathews, N.C.R. Buskell, J.M. Hodgkinson and J. Morton, Elsevier Applied Science, London, Vol. 3, pp. 3.146-3.154, 1987.

A.K. Kaw and J.G. Goree, "Analysis of Delamination of Composite Laminates," Engineering Mechanics in Civil Engineering, eds. A.P. Boresi and K.P. Chong, ASCE, New York, Vol. 1, pp. 102-105, 1984.

SOFTWARE:

A.K. Kaw, F. Urso, S.M. Jourdenais, A. Badstuebner, B. Shanberg, G. Willenbring, "PROMAL for WINDOWS", University of South Florida, Tampa, January 1996.

A.K. Kaw, F. Urso, S.M. Jourdenais, A. Badstuebner, "PROMAL: A PROgram for Macromechanical and Micromechanical Analysis of a Lamina/Laminate," Kern International Inc., Massachusetts, August 1990.

A.K. Kaw, F. Urso, S.M. Jourdenais, J.W. Meyers, "PROMAL: A PROgram for Macromechanical Analysis of a Lamina/Laminate," Kern International Inc., Massachusetts, March 1990.

A.K. Kaw and J.G. Goree, "An Instructional Interactive Package for Analysis of Composite Laminates," Clemson University, Clemson, SC, November 1984.

CONSULTANCY:

"A Short Course in Visual Basic," Leslie Controls, Tampa, FL, June 10- June 21, 1996.

"Strength of Brazed Joints of Wave Guide Extensions," Space Machine and Engineering Corporation, St. Petersburg, FL, August 1990.

GRADUATE STUDENT THESES AND SUPERVISING SUMMARY:

1. V.G. Das, "Analysis of Interface Cracks in Composite Structures," May 1990 (MS).
Employed by Intergraph, AL

2. A.S. Selvarathinam, "Comparison of Interphase Models in a Fracture Problem in Fiber Reinforced Composites," August 1991 (MS).
Continued for Ph.D. at Clemson University.
Postdoctoral work at University of Tennessee, Knoxville
Research Engineer, University of Houston, Texas

3. G. Sudhakar, "Mechanics of Multiple Cracks in Fiber Reinforced Brittle Matrix Composites," August 1992 (MS).
Posthumously awarded Ph. D. from Clemson University

4. J. Dorula, "Effect of Debonding of Fiber-Matrix Interface on Transverse Stiffness of Composites," May 1993 (MS).

5. V. Bechel, "Effect of Nonhomogeneous Interphases and Global Fiber Volume Fraction on Mechanical Behavior of Composites," August 1993 (MS).
Received USF Graduate Fellowship
Received Sigma XI Master's Thesis Award
Continued Ph.D. at University of Illinois at Urbana-Champaign
Currently Materials Research Engineer at Wright-Patterson AFB, OH.

6. D. Jadhav, "Analytical Modeling of a Fiber Crack in Fiber Reinforced Composites," December 1993 (MS).

7. S. Chidambaranathan, "Fracture Mechanics of Brittle Matrix Composites with Transversely Isotropic Fibers," December 1993 (MS).
Currently Lecturer in Chidambara University, India.

8. J. Ye, "Comparison of Fracture Mechanics Models with Axisymmetric and Planar Assumptions," May 1994 (MS).
Received USF Graduate Fellowship
Received ME Graduate Studies Award
Completed Ph.D. at USF under my guidance.
Currently employed by Verizon, Tampa.

9. S. Kunchithapatham, "Fracture Mechanics of Ceramic Matrix Composites with Imperfect Interfaces," May 1994 (MS).

10. K. Gangakhedkar, "Effect of Fiber/ Matrix Cluster Breaks in Fracture Mechanics of Composites," December 1995 (MS).

Received USF Graduate Fellowship
Currently employed by Phoenix Industries, CA.

11. P. Krishnan, "Finite Element Simulation of a Slice Compression Test," May 1997, (MS).
Currently employed by SDRI, Ohio

12. J. Ye, "Local Interaction Effects on Fracture Mechanics of Brittle Matrix Composites," December 1998, (Ph.D.).
See #8 above

13. M. Deepak, "A Computer-Aided Design Model for Fiber-Reinforced Pressure Vessels", May 1999(MS).
Currently employed by Software Engineer blackbaud.com

14. M. Denninger, "A Computer Aided Design Tool for Bascule Bridge Trunnion Assembly", December 2000 (MS).
Received USF Graduate Fellowship
Currently employed by Design Engineering, Busch Gardens, Tampa.

15. B. Ratnam, "Analysis of Trunnion Assembly Failures in Bascule Bridges", December 2000 (MS).
Received USF Graduate Fellowship
Doctoral Student in PhD Program in Public Policy at George Mason Univ

16. S. Nichani, "Experimental Investigation of Failure of Trunnion-Hub-Girder Assemblies in Bascule Bridges", August 2001 (MS)
Received USF Graduate Fellowship
Employed by KHouse Research

17. N. Collier, "Benefits of Staged Cooling of Composite Cylinders", May 2004 (MS).
Received Outstanding Masters' Thesis Award 2004.
Doctoral Student in PhD program in Civil Engineering, USF

18. J. Paul, "An Analytical Model For Thermal Stresses In Compound Cylinders With Temperature Dependent Properties", May 2005 (MS).
Employed by Boston Scientific

19. T. Wasik, "Effect of Nonhomogenous Interphases and Fiber Volume Fraction on Fracture Mechanics of Composite Materials", May 2005 (MS).

20. P. Chalasani, "Effect of Functionally Graded Interphases in Indentation Test", August 2006 (MS).
Employed by Wells Fargo

21. J. Daly, "Comparison of Indentation Tests", April 2007 (MS).

22. S. Garapati, "Nanoindentation Tests: Synergizing Experimental, Analytical and Numerical Results", May 2009 (MS).

	Current		Graduated	
	Director	Committee	Director	Committee
M.S. Thesis	2	5	21	22

M.S. Nonthesis	0	1	3	4
Ph.D.	2	1	1	6
TOTAL	5	7	25	32

UNDERGRADUATE STUDENT THESES:

- M. Keteltas, "Development of web Based Modules for Numerical Methods", May 2004.
K. Martin, "Development of Simulations for Simultaneous Linear Equations", May 2004.
S. Friese, "Developing New Injection Molding Procedures", May 2000.
C. Cumingham, "Development of Instructional Tools to Teach Numerical Methods", May 1998.

PROFESSIONAL SOCIETIES MEMBERSHIP

ASME
ASEE

REFEREE SERVICE

Proposal Referee

National Science Foundation

Journal Referee

ASME Journal of Applied Mechanics,
ASME Journal of Pressure Vessels Technology,
International Journal of Solids and Structures,
ASCE Journal of Engineering Mechanics,
SAE Transactions,
Composites: Part A
International Journal of Damage Mechanics,
Engineering Fracture Mechanics,
Composites Engineering
Mechanics of Research Communications
International Journal of Engineering Education
Computer Applications in Engineering Education
Journal of Quantitative Analysis of Sports
Applied Mathematics and Computation Journal

Conference Proceedings Referee

Proceedings of ASME Winter Annual Exposition
Proceedings of National ASEE Conference
Proceedings of Southeastern ASEE Conference
Proceedings of AIAA SMD Conference
Frontiers in Engineering Education Conference

Publisher Referee

Oxford Press
PWS-Kent,
McGraw Hill,
CRC Press.
Prentice Hall

External Review: Doctoral Dissertation
University of Sydney.

NATIONAL LEVEL SERVICE

Co-Leader, Workshop Using WEB 2.0 Tools to Disseminate Curricular Materials, Washington DC, August 13-15, 2008.
Session Chair, 2008 FIE Conference, Saratoga, NY, October 22-25, 2008.
Session Moderator, ASEE Annual Conference, 2007
Awards Chair, ASEE Mechanics Division, 2005-06.
Session Chair, Frontiers in Engineering Education Conference, 2003
Symposium Chair, ICCE/5, Las Vegas, NV, July 5- July 11, 1998.
Symposium Co-Organizer, ASME Summer Annual Meeting, Chicago, Illinois, June 29 - July 1, 1997.
Member, ASEE Mechanics Software Committee (1992-98).
Symposium Co-Organizer & Session Chair, ASME Summer Annual Meeting, Baltimore, Maryland, June 12-14, 1996.
Panel Discussion on Computing in Undergraduate Mechanics, ASME Summer Annual Meeting, Baltimore, Maryland, June 12-14, 1996.
Member of Scientific Committee, Session Organizer & Session Chair, 27th Annual Society of Engineering Science Conference, Sante Fe, New Mexico, October 21-25, 1990.
Member of Technical Committee, Session Organizer & Session Chair, 28th Annual Society of Engineering Science Conference, Gainesville, Florida, November 6-8, 1991.

REGIONAL LEVEL SERVICE:

Session Moderator, ASEE Southeastern Section, 2008.
Secretary, Southeastern Mechanical Engineering Division, ASEE, 1998-99.
Registration/Plus Chairman, Student Design Contest Advisor, and Session Chairman of Final Oral Guard Presentations, ASME Region XI RAC/RSC/ Career Fair, Tampa, FL, March 30-31, 1990.
Member, Executive Committee, Florida West Coast Chapter of ASME (1989-90).

UNIVERSITY SERVICE:

Member, Textbook Affordability Committee, USF (2009-)
Member, Provost Search Committee, USF (2003-04)
Member, Student Admissions Committee, USF (1994-97).
Member, Faculty Senate, (1994-96).
Member, Numerically Intensive Computing Committee, USF (1991-93).
Member, Undergraduate Council Committee, USF (1988-91).
Mentor, Minority Student Research, Center of Excellence, USF (1989-90).
Speaker, Research Techniques Seminar for Minority Students, Center of Excellence, USF (1989-90).

COLLEGE SERVICE:

Member, Outstanding Undergraduate Teaching Award Committee (2009)
Instructor, FES Engineering in Training Examination Review, Strength of Materials Section, USF (2007-09, 1991).
Chair, Associate Dean of Research Search, USF (2007-08)
Member, Computer Committee, USF (2008-, 1993-96).
Faculty Advisor, Engineers without Borders (2007)
Member, College Governance Committee, USF (2004-07, 1996-99)
Volunteer Instructor, Fundamentals of Engineering Examination (2006-)
Chair, College Mathematics Course Committee, USF (2000).
Chair, Academic Dishonesty Committee (Ad hoc), USF (1999).
Member, College Assigned Duties Committee, USF (1999)
Member, Teaching Awards Committee, USF (1998, 97, 95, 94, 90).

Member, Civil Engineering Faculty Search Committee, USF (1993).
Member, Student/Faculty Hearing Committee on Academic Dishonesty, USF (1989).
Member, Minority Director Search Committee, USF (1987-88).

DEPARTMENT SERVICE:

Chair, T&P Committee (2005-08)
Member, Scholarship Committee (2005-)
Member, Faculty Search Committee (2004-05)
Member, Faculty Enrichment Recruitment Committee (2003-04)
Webmaster, Departmental Website (1999-)
Chair, Progress Toward Tenure Committee, (2001-08)
Member, ABET and Undergraduate Curriculum Committee, (1999-)
Undergraduate Advisor, (1996-00)
Chair, Faculty Search Committee (1999-2000)
Chairman, Sustained Performance Committee, (1998-)
Chair, Promotion and Tenure Committee, (1997-98)
Chair, WWW Computer Committee, USF, (1994-98).
Member, Department Head Search Committee, USF (1997-98, 1989-90).
Advisor, Strain Gage Weight Machine (Winner of EXPO Undergraduate Display, 1997).
Chairman, Media Citations and Relations, USF, (1995-97).
Chair, Undergraduate Course Curriculum Committee, USF (1992-94).
Graduate Student Coordinator and Advisor, USF (1988-90).
Member, Faculty Search Committee, USF (1987-88, 90-91, 92-93).
Member, Graduate Affairs Committee, USF (1991-94).
Faculty Advisor, ASME Student Chapter, USF (1989-90).
Organizer, ASME Student Paper Night, Florida West Coast Chapter, Tampa (1990).
Judge, International Gas Turbine Institute Scholarship Award (1989).

COMMUNITY SERVICE:

Webmaster, ASME FWCS (2008-)
Awards Chair, ASME FWCS, 2007-08
College Relations, ASME FWCS, 2006-07
Member, Advisory Board, Tampa Bay Tech, 2001-03
Judge, State of Florida Science Fair, Orlando, April 1999.
Captain and Judge, State of Florida Science Fair, Lakeland, April 1998.
Great American Teach In, November 2003, 2001, 1999, 1998, 1997, 1995
Judge, State of Florida Science Fair, Orlando, April 1996.
Consultant, Odyssey of Mind School Competition, 1995 and 1996.
Judge, State of Florida Science Fair, Tampa, March 1994.
Judge, Ridgewood High School Science Fair, New Port Richey, January 1989.
Judge, SAMES, Sixth Annual Engineering and Science Competition, Tampa, March 1989.
Judge, State of Florida Forensics Program Tournament, Tampa, February 1989.

COURSES TAUGHT

Programming Concepts for Mechanical Engineers (Developed)
Computational Methods Laboratory (Developed)
Introduction to Visual Basic (Developed),
Mechanics of Composite Materials (Developed)
Computational Methods (Developed)
Applied Elasticity
Advanced Strength of Materials
System Dynamics
Mechanics of Materials

INDEPENDENT STUDY PROJECTS:

Vacuum Infusion
Simulations for Numerical Methods
Computerized Multiple Choice Questions for the Computer Simulation Course
Use of Symbolic Manipulation in Teaching Classical Elasticity Course
Home Page for Computational Methods
Finite Element Model for Balsa Wood Structure
Educational Software for Computer Methods
Teaching Tools for Composite Materials
Debating between SI System and US Customary System
New Applications in Composite Materials
FEM Models for Elasticity
Software Tools for Computer Methods
Design of Theft Proof License Plates for Cars
Development of Instructional Software for Mechanics of Composites
Development of Historical Essays on Numerical Methods
WWW pages for Mechanical Engineering Department
Analyzing Residential Water Sprinklers
Development of a WWW site for Mechanics of Composite Materials
Development of a Finite Difference Model for Cylindrical Assemblies
Development of Demonstration Tests for Mechanics of Materials
Development of Numerical Simulations based on MathCAD

PRESENTATIONS:

M. Hess, C. Owens, A. Kaw, "On Evaluating and Rating Online Resources for a Numerical Methods Course in Engineering Work in Progress", ASEE 2009 Conference in Austin, TX, June 15-18, 2009.

M. Hess, C. Owens, A. Kaw, "Evaluating the Impact of Web Based Resources on Student Learning and Satisfaction: Lessons Learned for Postsecondary Courses", 2008 AERA Conference in Denver, CO Nov 5 -8, 2008, Denver, Colorado.

A.K. Kaw, A. Yalcin, B. Demenezes, E. Allard, "Work in Progress - On Introducing Experiments in a Numerical Methods Course", 2008 FIE Conference, Saratoga, NY, October 22-25, 2008.

A. Kaw, et al, "Dissemination of Numerical Methods Resources: Beyond the Textbook, Conference and a Paper", Inventions and Impact 2: Building Excellence in Undergraduate Science, Technology, Engineering, and Mathematics (STEM) Education, Washington DC, August 13-15, 2008.

M. Hess, A. Kaw, C. Owens, "Assessing Impact of Web-Based Resources on Student Learning and Satisfaction in a Numerical Methods Course", ASEE 2008 Conference in Pittsburg, PA, June 22-25, 2008

A.K. Kaw, B. Demenezes, E. Allard, "Low Cost, Low Space, Low Setup Experiments for a Course in Numerical Methods", ASEE-SE Conference, Memphis, TN, April 6-8, 2008.

A.K. Kaw, "Problem Based Learning in the Classroom", Presentation to the Numerical Method Class, Civil Engineering, Old Dominion University, October 25, 2007 (Invited).

A.K. Kaw, "THG Assembly Procedure", Old Dominion University, Aerospace Seminar Series, October 26, 2007 (Invited).

A.K. Kaw, "Incorporating a Research Problem in a Numerical Methods Course for Mechanical Engineers", Annual ASEE Conference & Exposition, Honolulu, HI, June 24-27, 2007.

A.K. Kaw, M. Hess, "Assessing Teaching Methods for a Course in Numerical Methods", Annual ASEE Conference & Exposition, Chicago, IL, June 18-21, 2006.

M. Hess, A.K. Kaw, "Face-to-Face, or Hybrid Approaches to Instruction: An Evaluation of Four Delivery Methods in Numerical Methods Course", 2006 FERA, Jacksonville, FL, November 15-17, 2006.

A.K. Kaw, G.H. Besterfield, "Novel Web-Based Resources for Numerical Methods", *ASME Curriculum Innovation Award Winning Invited Presentation*, Annual ASME Conference, Nov 14-18, 2004, Anaheim, CA.

A.K. Kaw, G.H. Besterfield, J. Eison, "Assessment of Web-based Resources for Numerical Methods", Annual ASEE Conference & Exposition, June 20-23, 2004, Salt Lake City, Utah.

G.H. Besterfield, N. Pai, A.K. Kaw, and D.P. Hess, "Trunnion/Hub Study", Florida Department of Transportation (FDOT) / Florida Institute of Consulting Engineers (FICE) Design Conference 2004, July 12th – 14th, 2004, Orlando, Florida.

A.K. Kaw, M. Keteltas, J. Paul, J. Eison, G. Besterfield, "Web-Based Resources for a Course in Numerical Methods", FIE 2003, Boulder, Nov 5-8, 2003.

A.K. Kaw, "Seven Traits of Highly Effective Educators", ASEE Annual Conference & Exposition, Nashville, TN, June 22-25, 2003.

A.K. Kaw, S. Nichani, G.H. Besterfield, "Bringing a Real-World Problem to Elasticity", ASEE Annual Conference & Exposition, Nashville, TN, June 22-25, 2003.

A.K. Kaw, N. Collier, J. Eison, G.H. Besterfield, "Holistic Numerical Methods - A Customized Approach", ASEE Annual Conference & Exposition, Nashville, TN, June 22-25, 2003.

G.H. Besterfield, S. Nichani, A.K. Kaw, T. Eason, T. Cherukara, "Avoiding Failures During Assembly of a Trunnion-Hub-Girder for Bascule Bridges", ASME International Mechanical Engineering Congress, November 17-22, 2002.

T. Cherukara, G.H. Besterfield, A.K. Kaw, "Parametric Analysis and Ultimate Testing of Bascule Trunnion Assemblies", Heavy Movable Structures, Inc. Ninth Biennial Symposium, October 23-25, 2002.

A.K. Kaw, G.H. Besterfield, J. Eison, "Holistic Numerical Methods Prototype", NSF ECEG Conference, Washington DC, September 30 - October 1, 2002.

A.K. Kaw, G.H. Besterfield, S. Nichani, "Integrating a Research Problem in a Course in Applied Elasticity", ASEE-SE Section, Gainesville, FL, April 7-9, 2002.

G.H. Besterfield, T. Cherukara, A. Kaw, S. Nichani, "Trunnion-Hub-Girder Assemblies of Bascule Bridges," 8th Biennial Movable Bridge Symposium, Heavy Movable Structures, Inc., November 8-10, 2000, Orlando, FL.

G.H. Besterfield, T. Cherukara, A. Kaw, B. Ratnam, "Bascule Hub Research," Design Conference 2000 - Keeping Transportation Moving, FDOT, August 7 - 11, 2000, Orlando, FL.

G.H. Besterfield, T. Cherukara, A. Kaw, B. Ratnam, "Optimization of Trunnion-Hub-Girder Assemblies in Bascule Bridges", ICCE7, June 27 - July 1, 2000, Denver, CO.

G.H. Besterfield, T. Cherukara, A. Kaw, B. Ratnam, "Failure Studies of Trunnion-Hub-Girder Assemblies in Bascule Bridges", ICCE6, June 27 - July 1, 1999, Orlando, FL.

A.K. Kaw, J. Ye, "On Extracting Mechanical Properties of Fiber-Matrix Interface in Ceramic Matrix Composites Using The Push-Out Test", ICCE/5 Conference, Las Vegas, June 1998 (Invited Presentation).

A.K. Kaw, R. Rodriguez, "Synthesis of Tools to Teach Mechanics of Composite Materials", ASEE Southeastern Conference, Orlando, FL, April 5-7, 1998.

A.K. Kaw, G.H. Besterfield, P. Krishnan, "Simulation of a Slice Compression Test", ASME Summer Annual Meeting, Evanston, IL, June 29- July 1, 1997.

A.K. Kaw, "PROMAL for WINDOWS: A Tool for Mechanics of Composites", ASME Summer Annual Meeting Workshop, Baltimore, MD, June 12-14, 1996.

A.K. Kaw, S. Kunchithpatham, N.J. Pagano, "Stress Field in a Composite Cylinder with a Friction Fiber-Matrix Interface," ASEE SouthEastern Conference Outstanding Contributions in Research Paper, Gatlinburg, May 1996 (Invited Presentation- Luncheon Speaker).

A.K. Kaw, G.H. Besterfield, H. Madnaraj, Ye, J., "Effect of Extrinsic and Intrinsic Factors in a Push-in Test," ASME Summer Annual Meeting, Los Angeles, CA, June 28-30, 1995 (Invited Presentation).

A.K. Kaw, S. Kunchithpatham, N.J. Pagano, "Axisymmetric Thermoelastic Response of a Composite Cylinder with Matrix Cracking and a Frictional Fiber-Matrix Interface," First International Conference on Composites Engineering, New Orleans, LA, August 28-31, 1994 (Invited Presentation).

A.K. Kaw and S. Chidambaranathan, "Fracture Mechanics of Brittle Matrix Composites with Frictional Interfaces," Eighteenth Mechanics of Composites Review, Dayton, OH, December 7-8, 1993 (Invited Presentation).

V.T. Bechel, A.K. Kaw, "Effect of Nonhomogeneous Interphases and Nondilute Fiber Volume Fractions on Fracture Mechanics of Composites," ASME Winter Annual Meeting Symposium on Recent Advances in Structural Mechanics, New Orleans, LA, November 28 - December 2, 1993.

A.K. Kaw, K.S. Gadi, "Mechanics of Parallel Periodic Collinear Cracks in Brittle Matrix Composites," 1992 ASME Winter Annual Meeting Symposium on Damage Mechanics in Composites, ASME, Anaheim, November 8-13, 1992.

A.K. Kaw, "Annular Cracks in Brittle Matrix Composites with Frictional Interfaces," Materials Laboratory, WPAFB, Dayton, Ohio, July 10, 1992.

A.K. Kaw, G.H. Besterfield, "On Mechanics of Periodic Matrix Cracks in Brittle Matrix Fiber Reinforced Composites," 6th Japan-US Conference on Composite Materials, Orlando, June 22-25, 1992.

A.K. Kaw, D. Jadhav, G. Sudhakar, "Solving a Fracture Problem in Fiber Reinforced Composite Materials through Symbolic Manipulation," 28th Engineering Science Conference, University of Florida, Gainesville, November 6-8, 1991.

A.K. Kaw, A. Selvarithanam, G.H. Besterfield, "Comparison of Interphase Models for a Fracture Problem in Composite Materials," Midwest Theoretical and Applied Mechanics Conference, Rolla, MO, October 6-8, 1991, (Invited Presentation).

A.K. Kaw, "Annular Cracks in Brittle Matrix Composites," Materials Laboratory, WPAFB, Dayton, Ohio, August 5, 1991.

G.H. Besterfield, C. Rachakonda, A.K. Kaw, "Probabilistic Fiber Pullout in Composite Materials," First US National Congress on Computational Mechanics, Chicago, IL, July 21-24, 1991.

G.H. Besterfield, K. Aysola, A.K. Kaw, "Probabilistic Macromechanics Composite Analysis," First US National Congress on Computational Mechanics, Chicago, IL, July 21-24, 1991.

A.K. Kaw, S. Jourdenais, "PROMAL: A Computer Aided Instruction Program for Mechanics of Composite Materials," Annual ASEE Conference, New Orleans, June 16-20, 1991, (Invited Presentation).

A.K. Kaw, G.H. Besterfield, "Mechanical Behavior of Composites with an Interphase" ASCE Engineering Mechanics Specialty Conference, Columbus, OH, May 19-22, 1991.

A.K. Kaw, V.G. Das, "A Crack in Tension in an Imperfect Interface," Second PACAM Conference, Valparaiso, Chile, January 2-5, 1991.

A.K. Kaw, "Industry-University Research Interests in Composites," Honeywell Clearwater, FL, July 19, 1990 (Invited Presentation).

A.K. Kaw, "Modeling of Interfaces in Fiber Reinforced Composites," Chemical Engineering Seminar Series, USF, Tampa, November 13, 1989 (Invited Presentation).

A.K. Kaw, "Solution of Integral Equations with Cauchy Singularity and Logarithmically Singular Integrand," 26th Engineering Science Conference, University of Michigan, Ann Arbor, September 18-20, 1989.

A. K. Kaw, "Mechanics of Composite Materials," Florida Space Research and Development Workshop, Orlando, February 8-9, 1989.

A.K. Kaw, J.G. Goree, "Stresses in a Semi-Infinite Problem," First Joint Applied Mechanics and Engineering Science Conference, University of California, Berkeley, June 20-22, 1988.

A.K. Kaw, J.G. Goree, "Damage Growth in Composite Laminates with Interleaves," Sixth International Conference on Composite Materials, Imperial College, London, UK, July 20-24, 1987.

A.K. Kaw, J.G. Goree, "Analysis of Composite Laminates with Interleaves," 23rd Annual Meeting of the Society of Engineering Science, State University of New York at Buffalo, New York, August 25-27, 1986 (Invited presentation).

A.K. Kaw, J.G. Goree, "Analysis of Delamination of Composite Laminates," Fifth ASCE EMD Specialty Conference, University of Wyoming, Laramie, Wyoming, August 1-3, 1984.

CONTINUING EDUCATION COURSES:

Principles of Composites, NSF/ASEE Faculty Development Program, Fort Worth, 1989.

How Students Learn, National Technological University, 1994.

Effective Communication, USF EAP Program, 1995.

The Efficient Professor, National Technological University, 1995.
NEEDS - Multimedia, National Technological University, 1995.
How to be a Better Technical Writer, Keyes Technology, 1995.
Developing and Analyzing a Multiple Choice Question Examination, 1996
Preparing Effective Teaching Aid Materials, 1996
Memorization or Understanding: Are We Teaching the Right Thing, National Technological University, 1996.
The Product Realization Process (PRP): An Opportunity for Curriculum Integration, National Technological University, 1996.
Continuous Improvement in Undergraduate Education, National Technological University, 1996.
Web-Enhanced Course Delivery, USF Teaching Enhancement Center, 1997
Enhancing Students Creative Thinking Skills, USF Teaching Enhancement Center, 1997
Seven Principles of Good Teaching, USF Teaching Enhancement Center, 1997
Web-CT Course on Web-Enhancing Course Delivery, USF Teaching Enhancement Center, 1998.
Using Power Point to Enhance Classroom Teaching, USF Teaching Enhancement Center, 1998.