



Sheri Sheppard

DRC Professor in the School of Engineering
Mechanical Engineering

Bio

BIO

Sheri Sheppard teaches both undergraduate and graduate design-related classes, and conducts research on fracture mechanics and applied finite element analysis, and on how people become engineers. From 1999-2008 she served as a Senior Scholar at the Carnegie Foundation for the Advancement of Teaching, leading the Foundation's engineering study. In addition to publishing technical papers, reports, and textbooks, she has led or co-led several large, multi-institutional projects to build new educational research programs and related resources, such as the Center for the Advancement of Engineering Education (CAEE), The National Center for Engineering Pathways to Innovation (Epicenter), and a program on summer research experiences for high school teachers. Her industry experience includes engineering positions at Detroit's "Big Three" — Ford Motor Company, General Motors Corporation, and Chrysler Corporation. She earned her bachelors degree from the University of Wisconsin, and her PhD at the University of Michigan. At Stanford she has served a chair of the faculty senate, as associate vice provost for graduate education, and is the longtime faculty founder of and adviser to the graduate student group MEwomen. Her work has been recognized with numerous honors and awards, including the Walter J. Gores Award, Stanford University's highest award for excellence in teaching and the Chester F. Carlson and Ralph Coats Roe Awards of the American Society for Engineering Education in recognition of distinguished accomplishment in engineering education, and for outstanding teaching and notable contributions to the mechanical engineering profession.

ACADEMIC APPOINTMENTS

- Professor, Mechanical Engineering
- Member, Bio-X

HONORS AND AWARDS

- Ralph Coats Roe Award, American Society for Engineering Education (2012)
- The Walter J. Gores Award, Stanford University (2010)
- Chester F. Carlson Award, American Society for Engineering Education (2004)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Advisory Board, Journal of Engineering Education (2014 - present)

PROFESSIONAL EDUCATION

- PhD, Michigan , Mechanical Engineering (1985)
- MS, Univ. of Michigan-Dearborn , Mechanical Engineering (1980)
- BS, Univ. of Wisconsin-Madison , Engineering Mechanics (1978)

LINKS

- Designing Education Lab (DEL): <http://del.stanford.edu>
- The MEWomen's Group Website: <http://stanfordmewomen.weebly.com/>

Teaching

COURSES

2019-20

- Intro to Solid Mechanics: ENGR 14 (Aut)
- Introduction to Mechanical Engineering: ME 1 (Win)
- Science and Engineering Course Design: ENGR 312, VPTL 312 (Aut)
- Women's Perspectives: ENGR 311A (Win)

2018-19

- Expanding Engineering Limits: Culture, Diversity, and Equity: CSRE 117, CSRE 217, ENGR 117, ENGR 217, FEMGEN 117, FEMGEN 217 (Win)
- Intro to Solid Mechanics: ENGR 14 (Aut)
- Introduction to Mechanical Engineering: ME 1 (Spr)
- Mechanical Engineering Design- Integrating Context with Engineering: ME 170A (Win)
- Science and Engineering Course Design: ENGR 312, VPTL 312 (Aut)
- Women's Perspectives: ENGR 311A (Win)

2017-18

- Expanding Engineering Limits: Culture, Diversity, and Gender: ENGR 117, FEMGEN 117 (Win)
- Intro to Solid Mechanics: ENGR 14 (Aut)
- Mechanical Engineering Design- Integrating Context with Engineering: ME 170A (Win)
- Science and Engineering Course Design: ENGR 312, VPTL 312 (Aut)
- Women's Perspectives: ENGR 311A (Win)

2016-17

- Expanding Engineering Limits: Culture, Diversity, and Gender: ENGR 311C, FEMGEN 311C (Win)
- Finite Element Analysis in Mechanical Design: ME 309 (Win)
- Intro to Solid Mechanics: ENGR 14 (Aut)
- Science and Engineering Course Design: ENGR 312, VPTL 312 (Aut)
- Topics in Engineering and Science Education: ENGR 313 (Spr)
- What is Engineering? A look at engineers and their work: OSPBER 5 (Spr)
- Women's Perspectives: ENGR 311A (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Greses Perez

Doctoral Dissertation Advisor (AC)

Eric Brubaker, Abisola Kusimo

Master's Program Advisor

Whitney Burks, Rosemond Ho, Danielle Katz, Michael King, Laura Lee, Courtney Wenzel

Doctoral Dissertation Co-Advisor (AC)

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Publications

PUBLICATIONS

- **What Does It Take to Become a Good Engineer? Identifying Cross-National Engineering Student Profiles According to Perceived Importance of Skills** *International Journal of Engineering Education*
Haase, S., Chen, H., L., Sheppard, S., Kolmos, A., Meljgaard, N.
2013; 29 (3): 698–713
- **From freshmen engineering students to practicing professionals: Changes in beliefs about important skills over time.**
Winters, K., E., Matusovich, H., M., Brunhaver, S., Chen, H., L., Yasuhara, K., Sheppard, S.
2013
- **Research-Informed Practices for Inclusive Science, Technology, Engineering, and Math (STEM) Classrooms: Strategies for Educators to Close the Gender Gap**
Scutt, H. I., Gilmartin, S. K., Sheppard, S., Brunhaver, S.
2013
- **Not all the same: A look at early career engineers employed in different sub-occupations.**
Brunhaver, S., Gilmartin, S., K., Chen, H., L., Grau, M., M., Warner, M., Sheppard, S.
2013
- **Bending Moments to Business Models: Integrating an Entrepreneurship Case Study as Part of Core Mechanical Engineering Curriculum.**
Schar, M., F., Sheppard, S., Brunhaver, S., Cuson, M., Grau, M., M.
2013
- **Fostering an Enterprising Learning Ecology for Engineers** *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*
Brunhaver, S. R., Lande, M., Sheppard, S. D., Carryer, J. E.
2012; 28 (2): 355-363
- **The Center for the Advancement of Engineering Education: A Review of Results and Resources** *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*
Atman, C. J., Sheppard, S. D., Turns, J., Adams, R. S., Yasuhara, K., Lund, D.
2012; 28 (5): 1095-1108
- **Educating Engineering Entrepreneurs: A Multi-Institution Analysis** *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*
Yasuhara, K., Lande, M., Chen, H. L., Sheppard, S. D., Atman, C. J.
2012; 28 (2): 436-447
- **Work in Progress - Engineering Pathways Study: The College-Career Transition** *41st Annual Frontiers in Education Conference (FIE)*
Sheppard, S., Matusovich, H. M., Atman, C., Streveler, R. A., Miller, R. L.
IEEE.2011
- **Outcomes of a Longitudinal Administration of the Persistence in Engineering Survey** *JOURNAL OF ENGINEERING EDUCATION*
Eris, O., Chachra, D., Chen, H. L., Sheppard, S., Ludlow, L., Rosca, C., Bailey, T., Toye, G.
2010; 99 (4): 371-395
- **Comparing the Undergraduate Experience of Engineers to All Other Majors: Significant Differences are Programmatic** *JOURNAL OF ENGINEERING EDUCATION*
Lichtenstein, G., McCormick, A. C., Sheppard, S. D., Puma, J.
2010; 99 (4): 305-317
- **Exploring the Engineering Student Experience: Findings from the Academic Pathways of People Learning Engineering Survey (APPLES) (CAEE-TR-10-01).** *Seattle, WA: Center for the Advancement for Engineering Education.*
Sheppard, S., Gilmartin, S., Chen, H., L., Donaldson, K., Lichtenstein, G., Eri#, Ö.

2010

- **Cost of an Engineering Major** *JEE Selects in Prism*
Lichtenstein, G., McCormick, A., Sheppard, S.
2010: 47
- **Students Improving: Identifying Factors That Seem to Matter.**
Otto, E., Chen, Helen, L., Sheppard, Sheri, D.
2010
- **Students Improving: Identifying Factors That Seem to Matter.**
Otto, E., Chen, Helen, L., Sheppard, Sheri, D.
2010
- **Enabling Engineering Student Success: The Final Report for the Center for the Advancement of Engineering Education.**
Atman, C., Sheppard, et al., S.
San Rafael CA: Morgan & Claypool Publishers.2010
- **ENABLING ENGINEERING STUDENT SUCCESS: The Final Report for the Center for the Advancement of Engineering Education** *CAEE-TR-10-02*
Atman, Cynthia, J., Sheppard, Sheri, D., Turns, J., Adams, Robin, S., Fleming, Lorraine, N., Stevens, R.
2010
- **An Overview of the Academic Pathways Study: Research Processes and Procedures** *Technical Report #CAEE-TR-09-03 Summer 2003 – Fall 2008*
Sheppard, S., Atman, C., Fleming, L., Miller, R., Smith, K., Stevens, R.
2010
- **An Engineering Major Does Not (Necessarily) an Engineer Make: Career Decision Making Among Undergraduate Engineering Majors** *JOURNAL OF ENGINEERING EDUCATION*
Lichtenstein, G., Loshbaugh, H. G., Claar, B., Chen, H. L., Jackson, K., Sheppard, S. D.
2009; 98 (3): 227-234
- **A General Methodology to Predict Fatigue Life in Lead-Free Solder Alloy Interconnects** *JOURNAL OF ELECTRONIC PACKAGING*
Pierce, D. M., Sheppard, S. D., Vianco, P. T.
2009; 131 (1)
- **Does Major Matter? A Look at what Motivates Engineering Students in Different Majors.**
Parikh, S., Chen, H., Donaldson, K., Sheppard, S.
2009
- **Educating Engineers: Designing for the Future of the Field**
Sheppard, S., Macatangay, K., Colby, A., Sullivan, W.
Jossey-Bass.2009
- **More to Say: Analyzing Open-ended Student Responses to the Academic Pathways of People Learning Engineering Survey.**
Lande, M., Parikh, S., Sheppard, S., Toye, G., Chen, H., Donaldson, K.
2009
- **Persistence, Engagement, and Migration in Engineering Programs** *JOURNAL OF ENGINEERING EDUCATION*
Ohland, M. W., Sheppard, S. D., Lichtenstein, G., Eris, O., Chachra, D., Layton, R. A.
2008; 97 (3): 259-278
- **On Becoming a 21st Century Engineer Foreword** *JOURNAL OF ENGINEERING EDUCATION*
Sheppard, S. D., Pellegrino, J. W., Olds, B. M.
2008; 97 (3): 231-234
- **Development of the damage state variable for a unified creep plasticity damage constitutive model of the 95.5Sn-3.9Ag-0.6Cu lead-free solder** *JOURNAL OF ELECTRONIC PACKAGING*
Pierce, D. M., Sheppard, S. D., Fossum, A. F., Vianco, P. T., Neilsen, M. K.
2008; 130 (1)
- **Validation of a general fatigue life prediction methodology for sn-ag-cu lead-free solder alloy interconnects** *JOURNAL OF ELECTRONIC PACKAGING*

- Pierce, D. M., Sheppard, S. D., Vianco, P. T., Regent, J. A., Grazier, J. M.
2008; 130 (1)
- **Panel Session - Improving Learning and Retention in Introductory Statics** *IEEE Frontiers in Education Conference 2008*
Valle, C., Newstetter, W. C., Anderson, E. E., Litzinger, T. A., Sheppard, S. D.
IEEE.2008: 897–898
 - **Moving From Pipeline Thinking to Understanding Pathways: Findings from the Academic Pathways Study of Engineering Undergraduates.**
Atman, C., Sheppard et al., S.
2008
 - **Graduate School or Not: Engineering Students Consider Continuing Their Education in Co-terminal Programs.**
Jackson, K., Bailey, T., Sheppard, S., Chen, H.
2008
 - **Socioeconomic Status and the Undergraduate Experience: Preliminary Findings from Four American Universities.**
Donaldson, K., Lichtenstein, G., Sheppard, Sheri, D.
2008
 - **From PIE to APPLES: The Evolution of a Survey Instrument to Explore Engineering Student Pathways.**
Sheppard, S., Chen, H., L, Donaldson, et al., Krista
2008
 - **From PIE to APPLES: The Evolution of a Survey Instrument to Explore Engineering Student Pathways.**
Chen, H., Donaldson, K., Eri#, O., Chachra, D., Lichtenstein, G., Sheppard, Sheri, D.
2008
 - **Being and Becoming: Gender and Identity Formation of Engineering Students.**
Sheppard, S., Chachra, D., Kilgore, D., Loshbaugh, H., McCain, J., Chen, H.
2008
 - **Analyzing Large, Free-response Qualitative Data Sets: A Novel Quantitative-qualitative Hybrid Approach.**
Sheppard, S., Light, J., Yasuhara, K.
2008
 - **Academic Pathways Study: Processes and Realities.**
Clark, M., Sheppard et al., Sheri, D.
2008
 - **Academic Pathways Study: Processes and Realities.**
Clark, M., Sheppard, Sheri, D., Atman, Cynthia, J., Fleming, L., Miller, R., Stevens, R.
2008
 - **Conceptualizing Engagement: Contributions of Faculty to Student Engagement in Engineering.** *Journal of Engineering Education.*
Sheppard, Sheri, D., Chen et al., Helen, L.
2008
 - **Scaling Up: Taking the Academic Pathways of People Learning Engineering Survey (APPLES) National** *IEEE Frontiers in Education Conference 2008*
Donaldson, K. M., Chen, H. L., Toye, G., Clark, M., Sheppard, S. D.
IEEE.2008: 1078–1083
 - **Special Session - Linking Research Findings on Engineering Student Learning and Engineering Teaching: Implications for Engineering Education** *IEEE Frontiers in Education Conference 2008*
Atman, C., Fleming, L., Kilgore, D., Miller, R., Sheppard, S., Smith, K., Stevens, R., Streveler, R., Turns, J.
IEEE.2008: 784–785
 - **When understanding follows 'experiencing': A report from research in the field** *6th Mudd Design Workshop*
Hariharan, B., Shariq, S., Sheppard, S.
TEMPUS PUBLICATIONS.2008: 434–42

- **Targeting undergraduate students for surveys: Lessons from the Academic Pathways of People Learning Engineering Survey (APPLES)** *37th Annual Frontiers in Education Conference*
Donaldson, K. M., Chen, H. L., Toye, G., Sheppard, S. D.
IEEE.2007: 1116–1122
- **Correlates of Persistence in Engineering Education: Preliminary Results from the Academic Pathways Study.**
Chachra, D., Eri#, O., Donaldson, K., Sheppard, S., Rosca, C., Ludlow, L.
2007
- **Targeting Undergraduate Students for Surveys: Lessons from the Academic Pathways of People Learning Engineering Survey (APPLES).**
Donaldson, K., Chen, Helen, L., Toye, G., Sheppard, Sheri, D.
2007
- **Portraying the Academic Experiences of Students in Engineering: Students' Perceptions of Their Educational Experiences and Career Aspirations in Engineering.**
Sheppard, S., Korte, R., Smith, K.
2007
- **Exploring the Not-So-Talked-About Undergraduate Pathway: Migrating Into Engineering.**
Donaldson, K., Sheppard, Sheri, D.
2007
- **A Preliminary Analysis of Correlates of Engineering Persistence: Results from a Longitudinal Study.**
Eri#, Ö., Chachra, D., Chen, H., Rosca, C., Ludlow, L., Sheppard, Sheri, D.
2007
- **Special session - Academic Pathways Study: Special interactive session on findings and implications for engineering education and practice** *37th Annual Frontiers in Education Conference*
Atman, C., Kilgore, D., Eris, O., Fleming, L., Miller, R. L., Sheppard, S. D., Smith, K., Stevens, R., Streveler, R., Amos, D. M., Bailey, T., Chachra, D., Chen, et al
IEEE.2007: 933–935
- **The National Engineering Education Research Colloquies** *JOURNAL OF ENGINEERING EDUCATION*
Adams, R., Aldridge, D., Atman, C., Barker, L., Besterfield-Sacre, M., Bjorklund, S., Bransford, J., Breslow, L., Brophy, S., Burrows, V., Busch-Vishniac, I., Carlson, M., Carlson, et al
2006; 95 (4): 257-258
- **Customer value chain analysis** *RESEARCH IN ENGINEERING DESIGN*
Donaldson, K. M., Ishii, K., Sheppard, S. D.
2006; 16 (4): 174-183
- **What is engineering practice?** *5th Mudd Design Workshop*
Sheppard, S., Colby, A., Macatangay, K., Sullivan, W.
TEMPUS PUBLICATIONS.2006: 429–38
- **Work in progress: Is engineering for me? A qualitative case study of first-year students** *36th Annual Frontiers in Education (FIE 2006)*
Bailey, T. L., Sheppard, S. D.
IEEE.2006: 1537–1538
- **Pedagogies of engagement: Classroom-based practices** *JOURNAL OF ENGINEERING EDUCATION*
Smith, K. A., Sheppard, S. D., Johnson, D. W., Johnson, R. T.
2005; 94 (1): 87-101
- **Development of the Persistence in Engineering (PIE) Survey Instrument.**
Sheppard, S., Eri#, Ö., Chen, H., Bailey, T., Engerman, K., Loshbaugh, H.
2005
- **A new Journal for a field in transition** *JOURNAL OF ENGINEERING EDUCATION*
Felder, R. M., Sheppard, S. D., Smith, K. A.
2005; 94 (1): 7-10

- **Relationships between engineering student and faculty demographics and stakeholders working to affect change** *Frontiers in Education Conference*
Johnson, M. J., Sheppard, S. D.
AMER SOC ENGINEERING EDUCATION.2004: 139-51
- **On designing engineering education: Lessons learned at Mudd Design Workshop IV** *4th Mudd Design Workshop*
Dym, C. L., Rossmann, J. S., Sheppard, S. D.
TEMPUS PUBLICATIONS.2004: 470-74
- **Studying the Engineering Experience: Design of a Longitudinal Study.**
Sheppard, S., Atman, Cynthia, J., Stevens, R., Fleming, L., Streveler, R., Adams, Robin, S.
2004
- **Taking stock: An analysis of the publishing record as represented by the Journal of Engineering Education** *JOURNAL OF ENGINEERING EDUCATION*
Whitin, K., Sheppard, S.
2004; 93 (1): 5-12
- **Stress intensity factors in spot welds** *ENGINEERING FRACTURE MECHANICS*
Pan, N., Sheppard, S. D.
2003; 70 (5): 671-684
- **E-pals to enhance mechanics learning** *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*
Donaldson, K., Sheppard, S.
2003; 19 (6): 836-846
- **Spot welds fatigue life prediction with cyclic strain range** *INTERNATIONAL JOURNAL OF FATIGUE*
Pan, N., Sheppard, S.
2002; 24 (5): 519-528
- **Towards a science of engineering design teams** *13th International Conference on Engineering Design (ICED 01)*
Mabogunje, A., Carrizosa, K., Sheppard, S., Leifer, L.
PROFESSIONAL ENGINEERING PUBLISHING LTD.2001: 465-472
- **The compatibility (or incompatibility) of how we teach engineering design and analysis** *Mudd Design Workshop II, Designing Design Education for the 21st Century*
Sheppard, S. D.
TEMPUS PUBLICATIONS.2001: 440-45
- **Modification of a methodological design tool for the developing country scenario - A case study in product definition** *13th International Conference on Engineering Design (ICED 01)*
Donaldson, K. M., Sheppard, S. D.
PROFESSIONAL ENGINEERING PUBLISHING LTD.2001: 505-512
- **Design education for the 21st century - Introduction and overview** *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*
Dym, C. L., Sheppard, S. D.
2001; 17 (4-5): 322-323
- **Design as cornerstone and capstone** *MECHANICAL ENGINEERING*
Sheppard, S. D.
1999: 44-47
- **Fatigue life prediction of resistance spot welds under variable amplitude loads** *29th National Symposium on Fatigue and Fracture Mechanics*
Pan, N., Sheppard, S. D., Widmann, J. M.
AMER SOCIETY TESTING AND MATERIALS.1999: 802-814
- **Motor workshop: The role of interactivity in promoting learning** *28th Annual Frontiers in Education Conference on Moving from Teacher-Centered to Learner-Centered Education*
Reamon, D., Sheppard, S.
IEEE.1998: 672-675
- **Assessment of technology-assisted learning in higher education: It requires new thinking by universities & colleges** *28th Annual Frontiers in Education Conference on Moving from Teacher-Centered to Learner-Centered Education*

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- Sheppard, S. D., Reamon, D., Friedlander, L., KERNS, C., Leifer, L., Marincovich, M., Toye, G.
IEEE.1998: 141–145
- **Reality brings excitement to engineering education** *Symposium on Computing Futures in Engineering Design*
Leifer, L., Sheppard, S.
CAMBRIDGE UNIV PRESS.1998: 83–86
 - **Examples of Freshman Design Education** *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*
Sheppard, S., Jenison, R.
1997; 13 (4): 248-261
 - **A model for peer and student involvement in course assessment** *27th Annual Conference on Frontiers in Education - Teaching and Learning in an Era of Change (FIE 97)*
Sheppard, S., Johnson, M., Leifer, L.
I E E E.1997: 193–200
 - **Thoughts on freshman engineering design experiences** *26th Annual conference on Frontiers in Education - Technology-Based Re-Engineering Engineering Education (FIE 96)*
Sheppard, S. D., Jenison, R.
IEEE.1996: 909–913
 - **Analytic problem solving methodology** *26th Annual conference on Frontiers in Education - Technology-Based Re-Engineering Engineering Education (FIE 96)*
Reamon, D., Sheppard, S.
IEEE.1996: 484–488
 - **The explicit approximation method for design optimization problems with implicit constraints** *ENGINEERING OPTIMIZATION*
Hsu, Y. L., Sheppard, S. D., WILDE, D. J.
1996; 27 (1): 21-42
 - **FATIGUE AND FRACTURE ESTIMATION FOR METALLIC COMPONENTS - SOME CURRENT METHODS AND FUTURE-DEVELOPMENTS** *JOURNAL OF MECHANICAL DESIGN*
Nelson, D. V., Sheppard, S. D.
1995; 117: 121-127
 - **THE CURVATURE FUNCTION-METHOD FOR 2-DIMENSIONAL SHAPE OPTIMIZATION UNDER STRESS CONSTRAINTS** *COMPUTERS & STRUCTURES*
Hsu, Y. L., Sheppard, S. D., WILDE, D. J.
1995; 55 (4): 647-657
 - **DETERMINING THE CONSTITUTIVE PROPERTIES OF THE HEAT-AFFECTED ZONE IN A RESISTANCE SPOT WELD** *MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING*
Zuniga, S. M., Sheppard, S. D.
1995; 3 (3): 391-416
 - **Students connecting engineering fundamentals and hardware design: Observations and implications for the design of curriculum and assessment methods** *25th Annual Conference on Frontiers in Education - Engineering Education for the 21st-Century*
Brereton, M., Sheppard, S., Leifer, L.
I E E E.1995: 950–956
 - **A KNOWLEDGE-BASED APPROACH TO MODEL IDEALIZATION IN FEM** *10th Conference on Artificial Intelligence for Applications*
Prabhakar, V., Sheppard, S. D.
I E E E, COMPUTER SOC PRESS.1994: 488–490
 - **ELECTRICAL CONTACT RESISTANCE UNDER HIGH LOADS AND ELEVATED-TEMPERATURES** *WELDING JOURNAL*
Vogler, M., Sheppard, S.
1993; 72 (6): S231-S238
 - **FATIGUE CRACK-GROWTH IN NOTCHED AND PLAIN SHAFTS SUBJECTED TO TORSION AND AXIAL LOADING** *ENGINEERING FRACTURE MECHANICS*
Thompson, K. D., Sheppard, S. D.
1992; 43 (1): 55-71
-

- **GROWTH OF SHEAR LIPS IN SURFACE CRACKED SHAFTS SUBJECTED TO FATIGUE LOADING** *ENGINEERING FRACTURE MECHANICS*
Thompson, K. D., Sheppard, S. D.
1992; 43 (1): 73-82

- **STRESS INTENSITY FACTORS IN SHAFTS SUBJECTED TO TORSION AND AXIAL LOADING** *ENGINEERING FRACTURE MECHANICS*
Thompson, K. D., Sheppard, S. D.
1992; 42 (6): 1019-1034

- **FATIGUE LIFE ESTIMATION IN RESISTANCE SPOT WELDS - INITIATION AND EARLY GROWTH-PHASE** *FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES*
Sheppard, S. D., Strange, M.
1992; 15 (6): 531-549

- **VERIFICATION OF FRACTURE PARAMETER FOR UNCOUPLED THERMOINELASTICITY** *ENGINEERING FRACTURE MECHANICS*
Wagner, D. A., Sendekyj, G. P., Sheppard, S. D.
1992; 42 (3): 461-478

- **FIELD EFFECTS IN FATIGUE CRACK INITIATION - LONG LIFE FATIGUE-STRENGTH** *JOURNAL OF MECHANICAL DESIGN*
Sheppard, S. D.
1991; 113 (2): 188-194

- **THE INFLUENCE OF CRACK FACE FRICTION AND TRAPPED FLUID ON SURFACE INITIATED ROLLING-CONTACT FATIGUE CRACKS** *JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME*
Tallian, T. E., Farris, T. N., Sheppard, S. D.
1989; 111 (2): 396-399

- **SUBSURFACE CRACKS UNDER CONDITIONS OF SLIP, STICK, AND SEPARATION CAUSED BY A MOVING COMPRESSIVE LOAD** *JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME*
Sheppard, S. D., Barber, J. R., COMNINOU, M.
1987; 54 (2): 393-398

- **SHORT SUBSURFACE CRACKS UNDER CONDITIONS OF SLIP AND STICK CAUSED BY A MOVING COMPRESSIVE LOAD** *JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME*
Sheppard, S., Barber, J. R., COMNINOU, M.
1985; 52 (4): 811-817

- **THE SUBSURFACE CRACK UNDER CONDITIONS OF SLIP AND STICK CAUSED BY A SURFACE NORMAL FORCE** *JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME*
Chang, F. K., COMNINOU, M., Sheppard, S., Barber, J. R.
1984; 51 (2): 311-316